STR-2800L

AEP Model
UK Model

FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

GENERAL

Power Requirements:	110, 120, 220 or 240 V ac adjustable, 50/60 Hz
Power Consumption:	250 W (UK model) 170 W (AEP model)
Dimensions:	Approx. 485 (w) x 145 (h) x 375 (d) mm $19\frac{1}{16}$ (w) x $5\frac{3}{4}$ (h) x $14\frac{11}{16}$ (d) inches including projecting parts and controls
Weight:	Approx. 9.5 kg, 20 lb 15 oz (net) Approx. 11 kg, 24 lb 4 oz (with shipping carton)

FM SECTION

Tuning Range:	87.5 – 108 MHz
Antenna:	300 Ω balanced 75 Ω unbalanced
Sensitivity:	at S/N 50 dB quieting 4 μV (MONO) 45 μV (STEREO) at S/N 46 dB quieting 4.5 μV (MONO) (40 kHz deviation) 50 μV (STEREO) (40 kHz deviation) Usable sensitivity 1.9 μV, IHF 1.7 μV, S/N = 26 dB (40 kHz deviation)
Harmonic Distortion:	at 100 Hz 0.2 % (MONO) 0.5 % (STEREO) at 1 kHz 0.2 % (MONO) 0.3 % (STEREO) at 10 kHz 0.2 % (MONO) 0.8 % (STEREO)
Alternate Channel Selectivity:	60 dB (400 kHz) 40 dB (300 kHz, S/N = 26 dB, 40 kHz deviation)
IM Distortion:	0.2 % (MONO) 0.5 % (STEREO)
Separation:	35 dB (100 Hz) 40 dB (1 kHz) 35 dB (10 kHz)
RF Intermodulation:	55 dB
Muting Threshold:	Approx. 5 μV
Image Rejection:	45 dB
IF Rejection:	90 dB
Spurious Rejection:	75 dB
AM Suppression:	54 dB
Capture Ratio:	1.5 dB
S/N Ratio:	70 dB (MONO) 68 dB (STEREO)
Frequency Response:	40 – 12,500 Hz $^{+1}_{-2}$ dB 30 – 15,000 Hz $^{+1}_{-3}$ dB

AM SECTION

Tuning Range:	MW 530 – 1,605 kHz LW 150 – 350 kHz

– Continued on page 2 –

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SONY®
SERVICE MANUAL

Antenna: Built-in ferrite-rod antenna
External antenna terminal

Selectivity: MW 50 dB (10 kHz)
LW 50 dB (10 kHz)

Sensitivity: MW 250 µV/m, built-in antenna
LW 500 µV/m, built-in antenna
MW 100 µV, external antenna at 1,000 kHz
LW 100 µV, external antenna at 250 kHz

Image Rejection: MW 40 dB at 1,000 kHz
LW 70 dB at 1,000 kHz

S/N Ratio: MW 50 dB (50 mV/m)
LW 50 dB (50 mV/m)

Harmonic Distortion: MW 0.5 % (50 mV/m, 400 Hz)
LW 0.5 % (50 mV/m, 400 Hz)

AUDIO AMPLIFIER SECTION

Continuous RMS Power Output: (rated output) (less than 0.2 % harmonic distortion)
Both channels driven simultaneously
At 20 – 20,000 Hz
20 W + 20 W (8 Ω)
20 W + 20 W (4 Ω)
At 1 kHz
20 W + 20 W (8 Ω)
20 W + 20 W (4 Ω)
According to DIN 45500
20 W + 20 W (8 Ω)
20 W + 20 W (4 Ω)

Dynamic Power Output: (IHF constant power supply method)
80 W (8 Ω)
80 W (4 Ω)

Power Bandwidth: 10 – 30,000 Hz, IHF

Damping Factor: 25 (at 1 kHz, 8 Ω)

Harmonic Distortion: Less than 0.2 % at rated output
Less than 0.1 % at 1 W output

IM Distortion: (60 Hz : 7 kHz = 4 : 1)
Less than 0.2 % at rated output
Less than 0.1 % at 1 W output

Residual Noise: Less than 0.008 µW, 8 Ω

Frequency Response:

PHONO	RIAA equalization curve ± 1 dB
TAPE REC/PB (input)	10 – 30,000 Hz $^{+0.5}_{-3.0}$ dB

Input Sensitivity and Impedance:

	Sensitivity *	Impedance	S/N	Weighting network
PHONO	2.5 mV (–50 dB)	50 kΩ	70 dB	A
TAPE REC/PB (input)	250 mV (–10 dB)	80 kΩ	90 dB	A

Note: * Measured with rated output into 8 Ω loads (both channels driven simultaneously) at 1 kHz.

Output Level and Impedance:

	Output level	Impedance
REC OUT	250 mV (–10 dB)	4.7 kΩ
REC/PB (output)	40 mV (–26 dB)	82 kΩ

Headphone: Accepts low and high impedance headphones

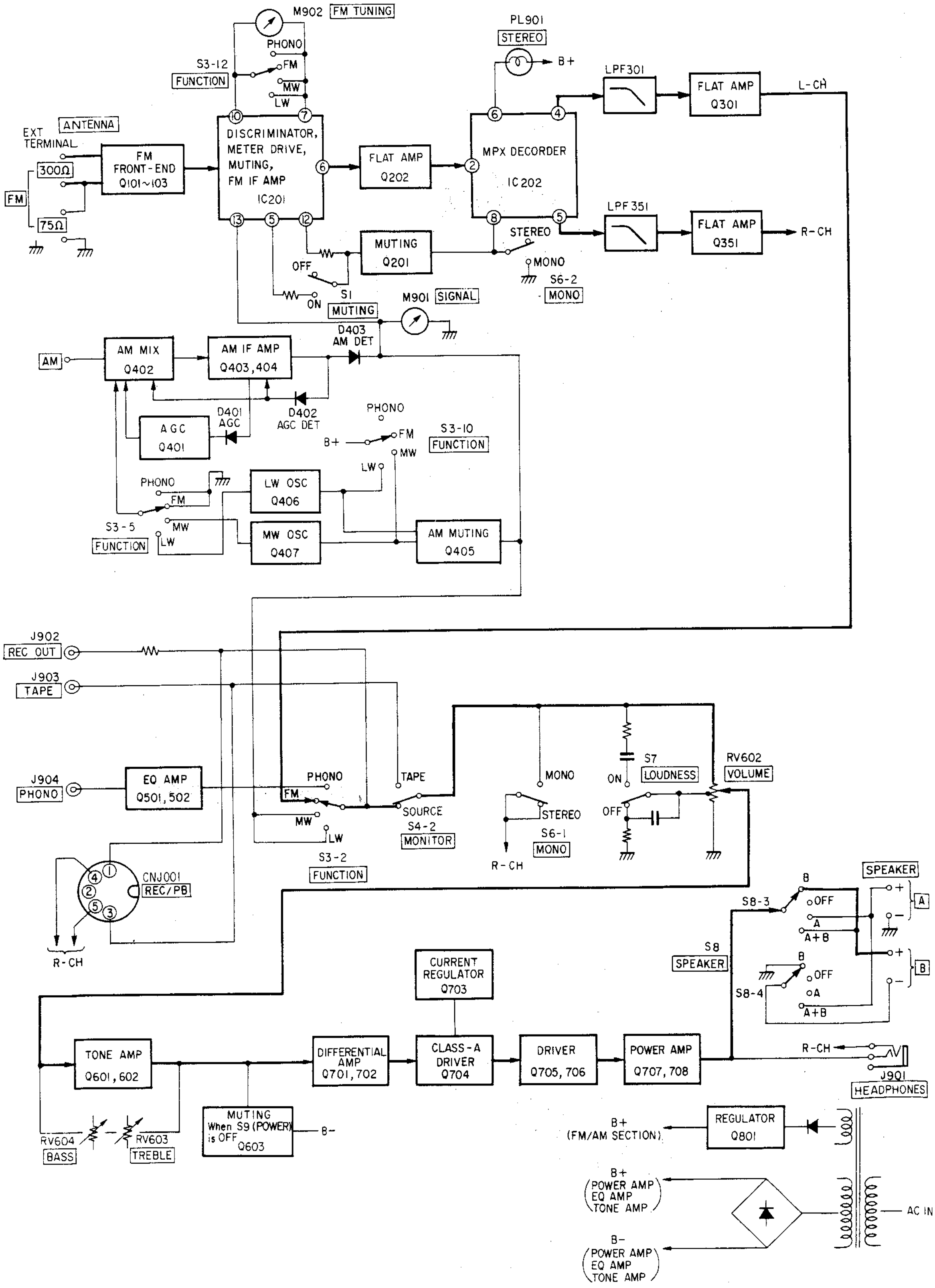
Speaker: Accepts 4 – 16 Ω speakers

Tone Controls: BASS ± 10 dB at 100 Hz
TREBLE ± 10 dB at 10 kHz

Loudness Controls: + 8 dB at 50 Hz, + 3 dB at 10 kHz
(Attenuation: 30 dB)

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

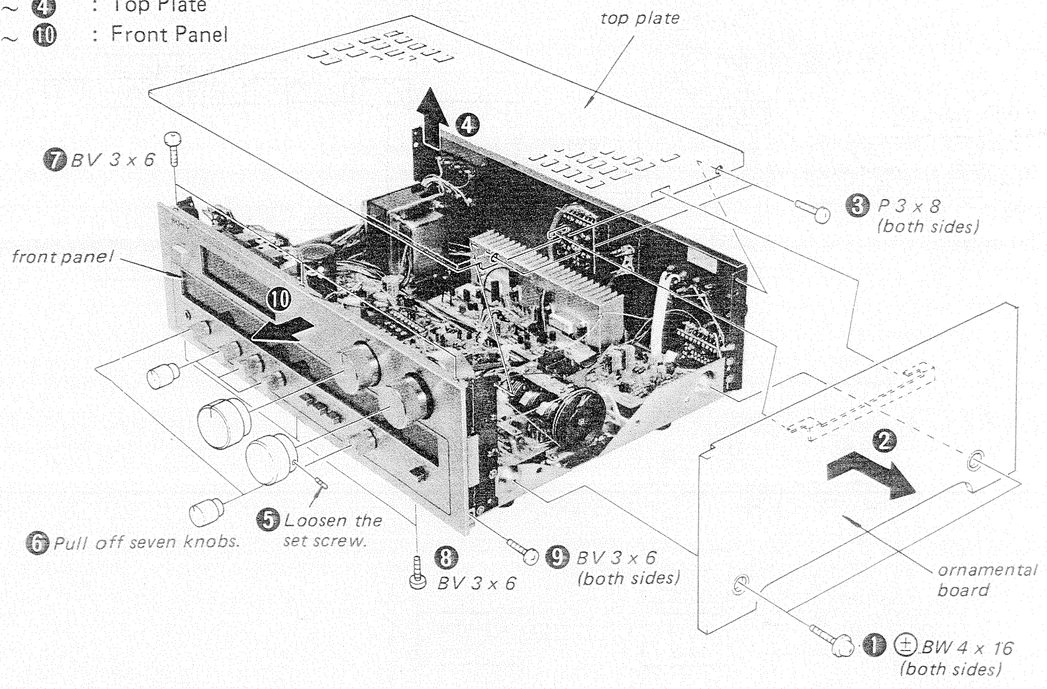

M902 FM TUNING
PHONO
S3-12 FUNCTION
FM
MW
LW
EXT TERMINAL
ANTENNA
FM
300Ω
75Ω
FM FRONT-END Q101~103
DISCRIMINATOR, METER DRIVE, MUTING, FM IF AMP IC201
10
7
6
13
5
12
FLAT AMP Q202
PL901 STEREO
B+
MPX DECORDER IC202
2
6
4
8
5
LPF301
FLAT AMP Q301
L-CH
LPF351
FLAT AMP Q351
R-CH
MUTING Q201
STEREO
MONO
S6-2 MONO
OFF
ON
S1 MUTING
M901 SIGNAL
D403 AM DET
AM
AM MIX Q402
AM IF AMP Q403,404
D401 AGC
D402 AGC DET
AGC Q401
PHONO
B+
FM
MW
LW
S3-10 FUNCTION
PHONO
FM
MW
LW
S3-5 FUNCTION
LW OSC Q406
MW OSC Q407
AM MUTING Q405
J902 REC OUT
J903 TAPE
J904 PHONO
EQ AMP Q501,502
PHONO
TAPE
FM
MW
LW
SOURCE
S4-2 MONITOR
S3-2 FUNCTION
MONO
STEREO
S6-1 MONO
R-CH
ON
OFF
S7 LOUDNESS
RV602 VOLUME
CNJ001 REC/PB
1
2
3
4
5
R-CH
SPEAKER
S8-3
B
OFF
A
A+B
+
−
A
S8 SPEAKER
S8-4
B
OFF
A
A+B
+
−
B
CURRENT REGULATOR Q703
TONE AMP Q601,602
DIFFERENTIAL AMP Q701,702
CLASS-A DRIVER Q704
DRIVER Q705,706
POWER AMP Q707,708
R-CH
J901 HEADPHONES
RV604 BASS
RV603 TREBLE
MUTING When S9 (POWER) is OFF Q603
B-
B+ (FM/AM SECTION)
REGULATOR Q801
B+ (POWER AMP EQ AMP TONE AMP)
B- (POWER AMP EQ AMP TONE AMP)
AC IN

SECTION 2
DISASSEMBLY

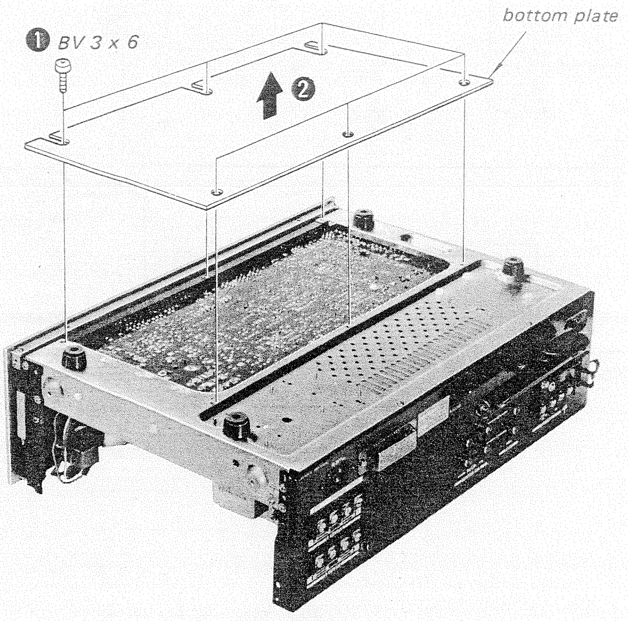
2-1. REMOVAL

Ornamental Board, Top Plate And Front Panel Removal

①, ② : Ornamental Board
① ~ ④ : Top Plate
① ~ ⑩ : Front Panel


top plate
④
⑦ BV 3 x 6
③ P 3 x 8 (both sides)
front panel
⑩
②
⑥ Pull off seven knobs.
⑤ Loosen the set screw.
⑧ BV 3 x 6
⑨ BV 3 x 6 (both sides)
ornamental board
① ⊕BW 4 x 16 (both sides)

Bottom Plate Removal


① BV 3 x 6
②
bottom plate

MAIN Circuit Board

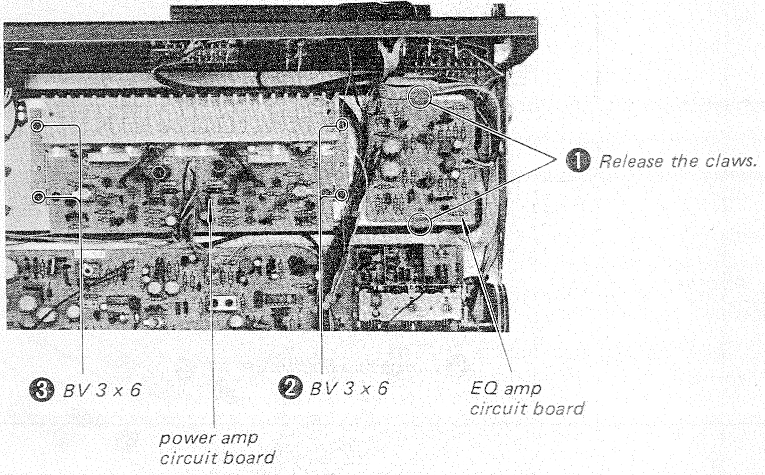
- Replacement of the components on the main circuit board.

Dial Cord Stringing

- On page 6.

Circuit Board Removal

❶ : EQ Amp Circuit Board
❷ , ❸ : Power Amp Circuit Board

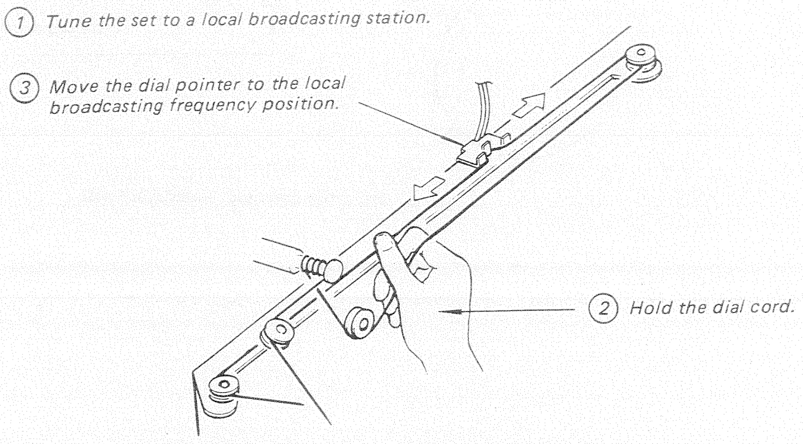

❶ Release the claws.
❸ BV 3 x 6
❷ BV 3 x 6
EQ amp circuit board
power amp circuit board

Front-end Replacement

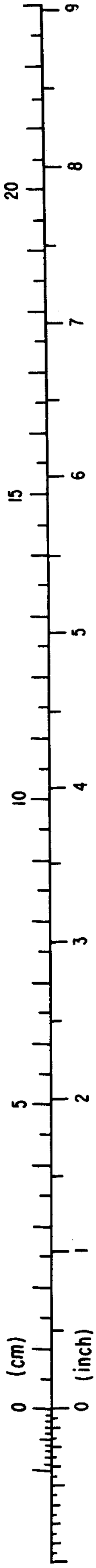
CAUTION

When the front-end needs to be repaired, replace the front-end block as a part. The parts on the front-end block are not individually available. After replacing the front-end block, perform the following procedures.

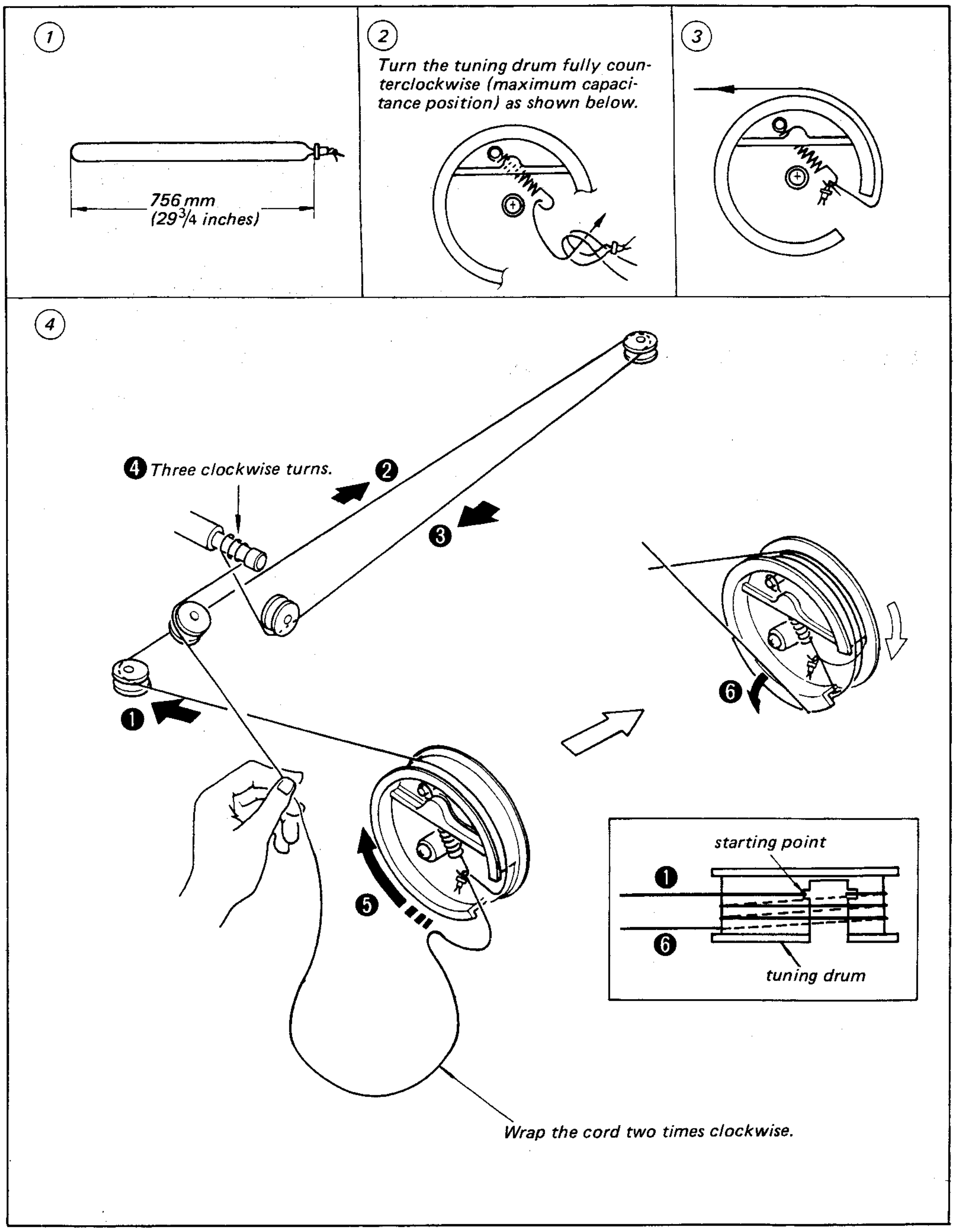
1. Dial pointer calibration.


① Tune the set to a local broadcasting station.
③ Move the dial pointer to the local broadcasting frequency position.
② Hold the dial cord.

2. Perform the FM IF Alignment (1) on page 10.
3. Be sure to satisfy the specifications.
4. If necessary, perform the each adjustment.


20
15
10
5
0
(cm)
9
8
7
6
5
4
3
2
1
0
(inch)

2-2. DIAL CORD STRINGING


①
756 mm
(29¾ inches)
②
Turn the tuning drum fully counterclockwise (maximum capacitance position) as shown below.
③
④
❹ Three clockwise turns.
❷
❸
❶
❺
❻
starting point
❶
❻
tuning drum
Wrap the cord two times clockwise.

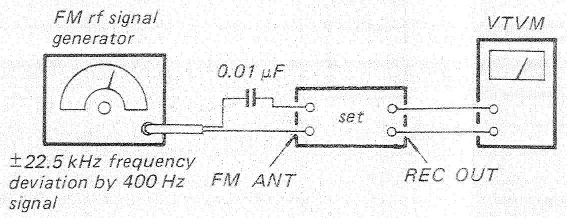
MEMO

3-1. FM SECTION

Setting:

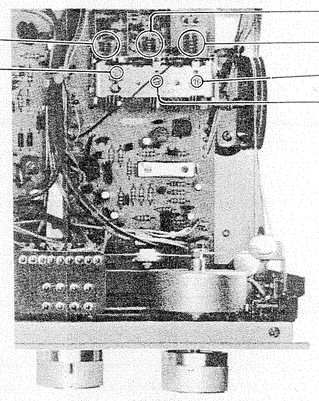
FUNCTION selector: FM
MONO switch: MONO
MUTING switch: OFF

❶ FM Frequency Coverage and Tracking Adjustment


FM rf signal generator
0.01 μF
set
VTVM
±22.5 kHz frequency deviation by 400 Hz signal
FM ANT
REC OUT

Note: Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
87.5 MHz	L105
108 MHz	CT103

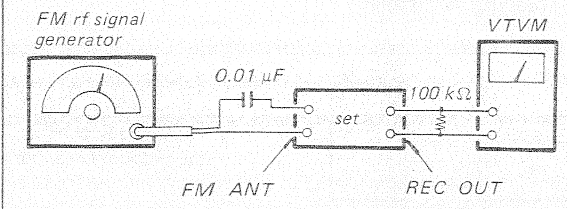


FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L103, 104	87.5 MHz
L101, 102	
CT101	108 MHz
CT102	

- Adjust in numerical order.

④ FM Output Level Adjustment

Procedure:


FM rf signal generator
VTVM
0.01 μF
set
100 kΩ
FM ANT
REC OUT

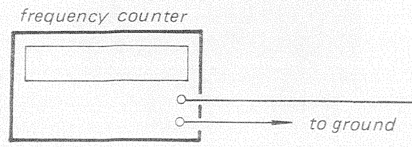
FM Signal Generator Setting:

Carrier frequency:	98 MHz
Modulation:	400 Hz, 75 kHz deviation (100 %)
Output level:	1 mV (60 dB)

Adjust RT202 for 0.775 V (0 dB) on the VTVM.

⑥ VCO Adjustment

Procedure:


frequency counter
to ground

FM Signal Generator Setting:

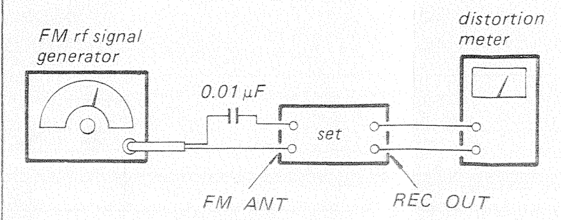
Carrier frequency:	98 MHz
Modulation:	no modulation
Output level:	3.2 mV (70 dB)

Adjust RT203 for 19 kHz ± 100 Hz on the counter.

Note: Perform this adjustment after the power switch turned ON and one minute passed.

③ FM IF Alignment (2)

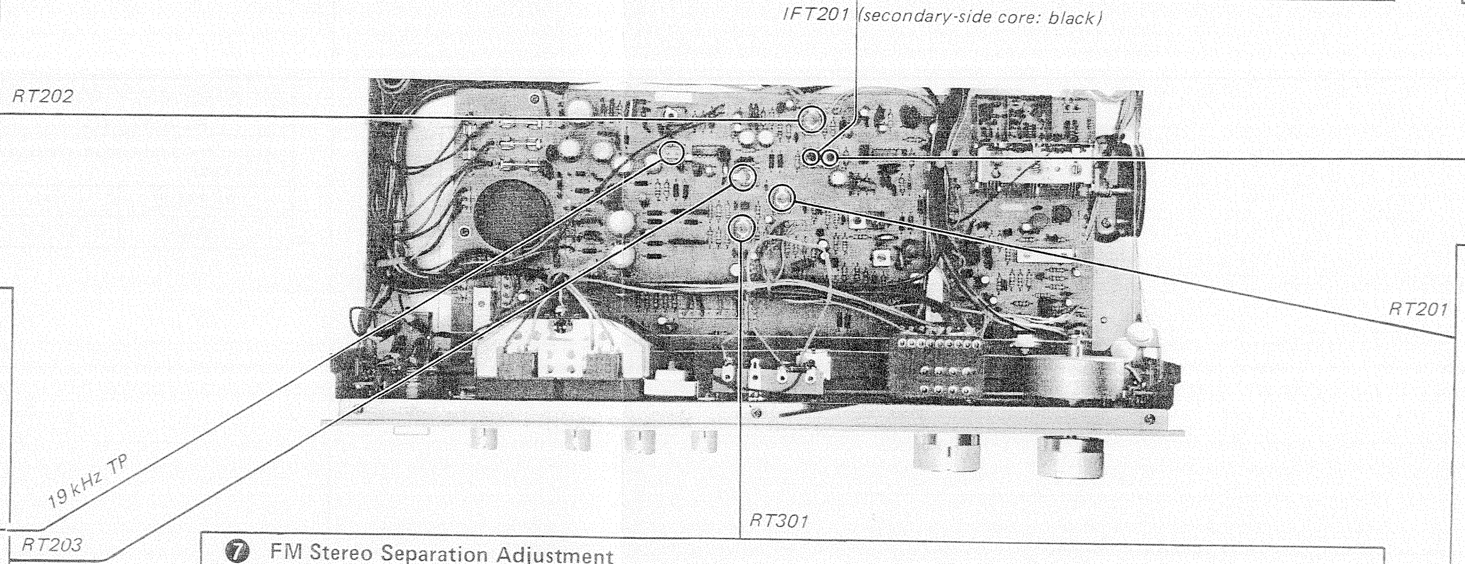
Procedure:


FM rf signal generator
distortion meter
0.01 μF
set
FM ANT
REC OUT

Tune the set to 98 MHz and adjust the secondary-side core (black) of IFT201 for a minimum distortion reading.

FM Signal Generator Setting:

Carrier frequency:	98 MHz
Modulation:	400 Hz, 75 kHz deviation (100 %)
Output level:	1 mV (60 dB)

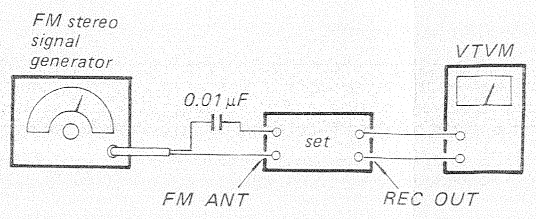

IFT201 (secondary-side core: black)
IFT201 (primary side core: blue)
RT202
RT201
19 kHz TP
RT203
RT301

⑦ FM Stereo Separation Adjustment

Setting:

MONO switch: STEREO

Procedure:


FM stereo signal generator
VTVM
0.01 μF
set
FM ANT
REC OUT

FM Signal Generator Setting:

Carrier frequency:	98 MHz
Output level:	1 mV (60 dB)
Mode:	Stereo
Modulation:	
Audio (400 Hz):	67.5 kHz deviation (90 %)
Pilot (19 kHz):	7.5 kHz deviation (10 %)

FM stereo signal generator output channel	VTVM connection	VTVM reading
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RT301 for a minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RT301 for a minimum reading.

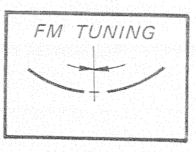
Stereo separation: Ⓐ – Ⓑ, Ⓒ – Ⓓ.

The difference between separations Ⓐ → Ⓑ and Ⓒ → Ⓓ should be equal.

② FM IF Alignment (1)

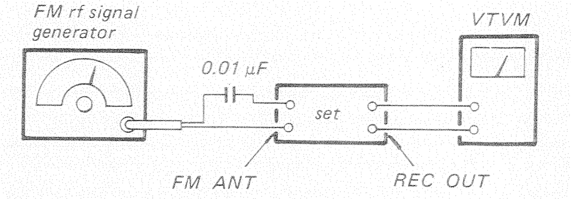
Procedure:

1. Detune the set.
2. Adjust the primary-side core (blue) of IFT201 for zero center on the FM TUNING meter as shown.



⑤ SIGNAL Meter Adjustment

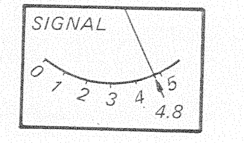
Procedure:


FM rf signal generator
VTVM
0.01 μF
set
FM ANT
REC OUT

FM Signal Generator Setting:

Carrier frequency:	98 MHz
Modulation:	no modulation
Output level:	3.2 mV (70 dB)

Tune the set to 98 MHz and adjust RT201 for specified pointer position on the SIGNAL meter as shown.

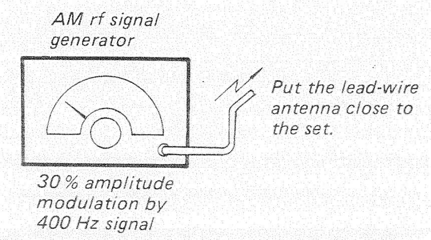

SIGNAL
0
1
2
3
4
5
4.8

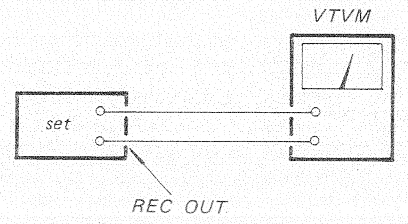
3-2. MW AND LW SECTION

❶ MW/LW Frequency Coverage and Tracking Adjustments

Setting:

FUNCTION selector:	MW or LW
AM ANTENNA switch:	BUILT IN

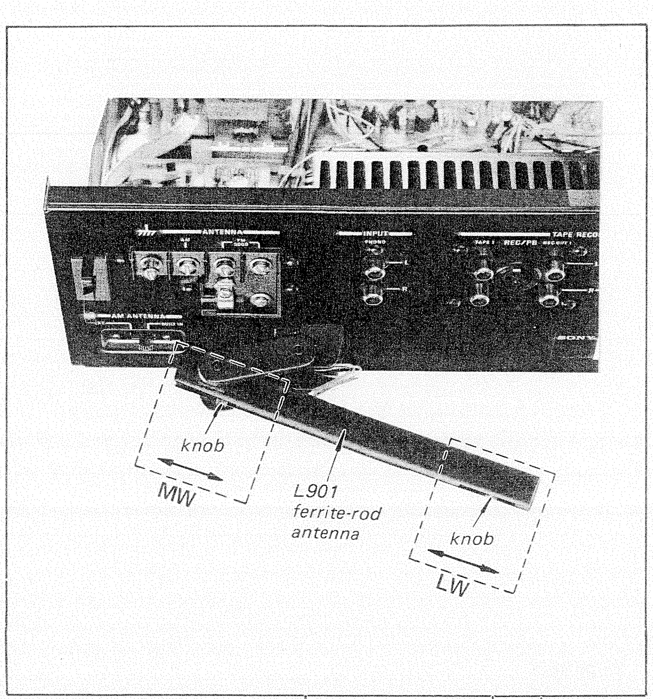

AM rf signal generator
Put the lead-wire antenna close to the set.
30 % amplitude modulation by 400 Hz signal

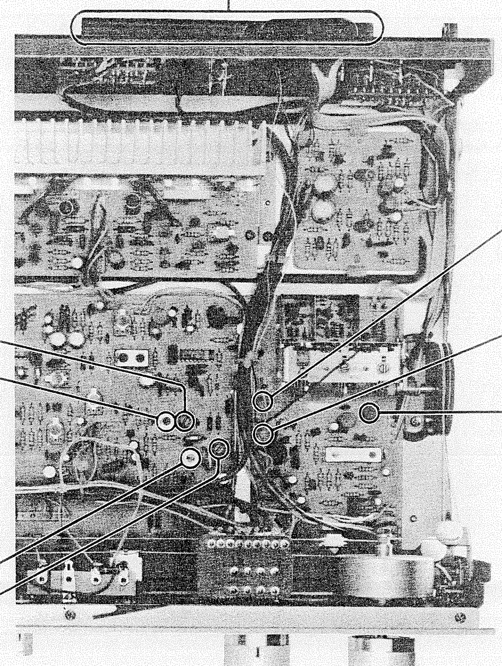

VTVM
set
REC OUT

Note:
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.
- Set the AM rf signal generator output level as weak as posible.
- IFT401 is adjusted in the factory, so no adjustment of AM IF is necessary.

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
1,680 kHz	CT403
520 kHz	L403

LW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
145 kHz	L404
365 kHz	CT404

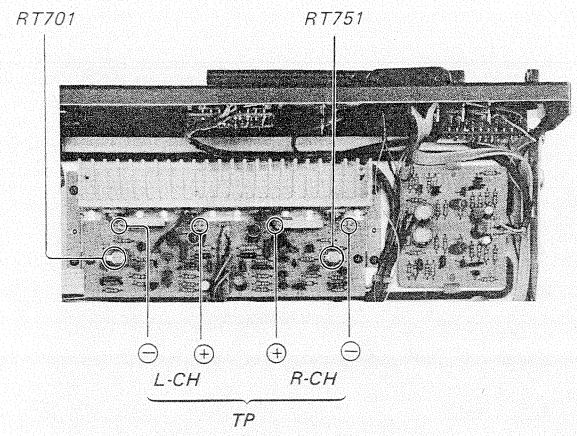

knob
MW
L901 ferrite-rod antenna
knob
LW

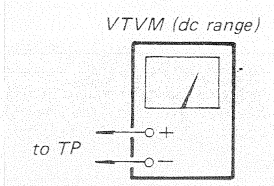


3-3. POWER AMP SECTION

DC Bias Adjustment

Procedure:


RT701
RT751
⊖ ⊕ ⊕ ⊖
L-CH
R-CH
TP


VTVM (dc range)
to TP
+
−

With no input signal, adjust RT701 (L-CH) and RT751 (R-CH) for 50 mV VTVM reading.

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM	
L901	600 kHz
CT401	1,350 kHz

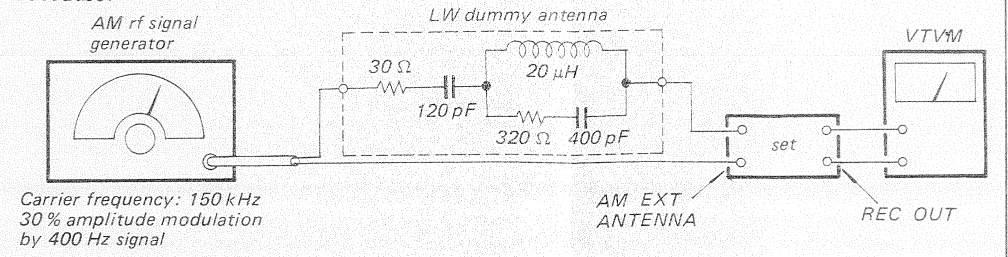
LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L901	150 kHz
CT402	300 kHz

❷ LW EXT Antenna Coil Adjustment

Setting:

AM ANTENNA switch: EXT

Procedure:


AM rf signal generator
LW dummy antenna
30 Ω
120 pF
20 µH
320 Ω
400 pF
VTVM
set
AM EXT ANTENNA
REC OUT
Carrier frequency: 150 kHz
30 % amplitude modulation
by 400 Hz signal

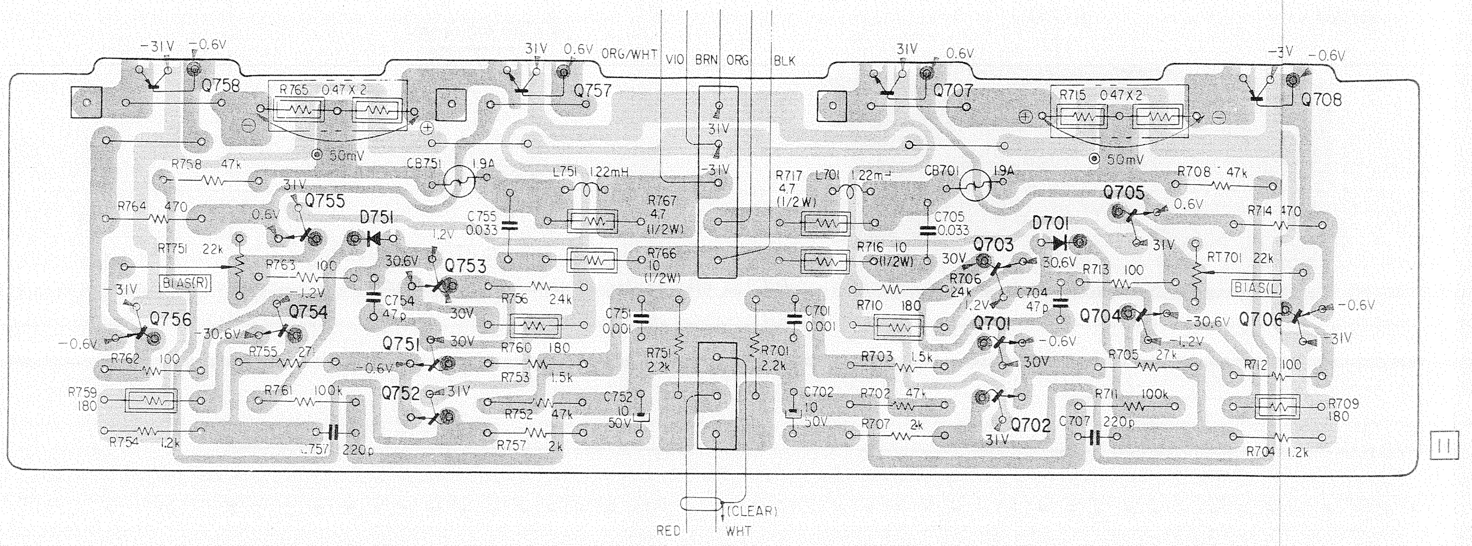
- Tune the set to 150 kHz and adjust L402 for a maximum reading on VTVM.

SECTION 4
DIAGRAMS

4-1. MOUNTING DIAGRAM – Power Amp Board –

– Conductor Side –

D			751			701		
Q	758 756	755 754	753 751 752	757	707	703 701 702	705 704	708 706



-31V
-0.6V
Q758
R765 0.47×2
Q757
31V
0.6V
ORG/WHT
VIO
BRN
ORG
BLK
Q707
R715 0.47×2
-3V
-0.6V
Q708
50mV
CB751
1.9A
L751 1.22mH
R717 4.7 (1/2W)
L701 1.22mH
CB701
1.9A
50mV
R708 47k
R758 47k
R764 470
Q755
D751
C755 0.033
R767 4.7 (1/2W)
C705 0.033
D701
Q705
R714 470
R751 22k
R763 100
Q753
R766 10 (1/2W)
R716 10 (1/2W)
Q703
R706 24k
R713 100
RT701 22k
BIAS(R)
BIAS(L)
Q754
C754 47p
R756 24k
C751 0.001
C701 0.001
R710 180
C704 47p
Q704
Q706
Q756
Q701
R762 100
R755 27
Q751
R760 180
R751 2.2k
R701 2.2k
R703 1.5k
R705 27
R712 100
R759 180
R761 100k
Q752
R753 1.5k
C752 10 50V
C702 10 50V
R702 47k
R711 100k
R709 180
R752 47k
R707 2k
Q702
C707 220p
R754 1.2k
C757 220p
R757 2k
R704 1.2k
(CLEAR)
RED
WHT
11

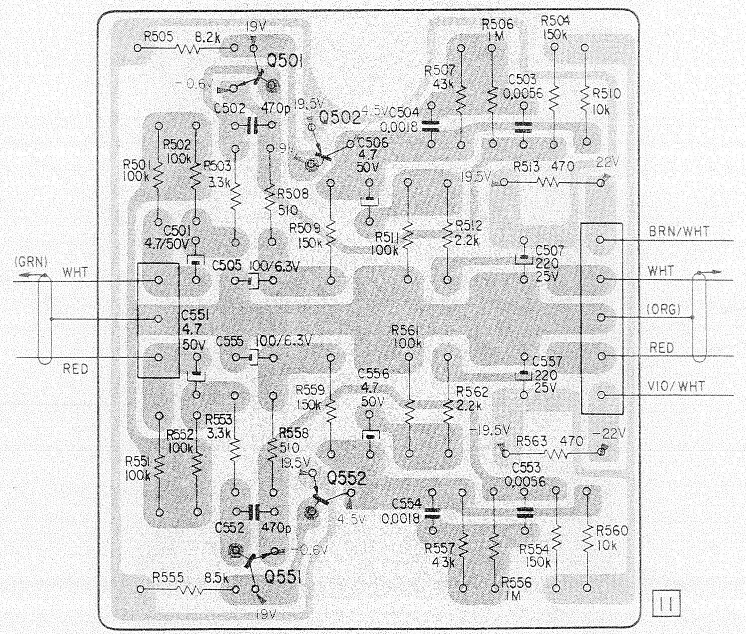
Note:

▒ : B+ pattern

░ : B– pattern

4-2. MOUNTING DIAGRAM – EQ Amp Board –

– Conductor Side –



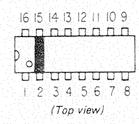
R505 8.2k
19V
Q501
-0.6V
R506 1M
R504 150k
R507 43k
C503 0.0056
R510 10k
C502 470p
Q502
C504 0.0018
C506 4.7 50V
R501 100k
R502 100k
R503 3.3k
R508 510
R513 470
22V
R509 150k
R511 100k
R512 2.2k
C501 4.7/50V
C505 100/6.3V
C507 220 25V
BRN/WHT
(GRN)
WHT
(ORG)
RED
VIO/WHT
C551 4.7 50V
C555 100/6.3V
R561 100k
C557 220 25V
R559 150k
C556 4.7 50V
R562 2.2k
R563 470
-22V
R553 3.3k
R552 100k
R551 100k
R558 510
C553 0.0056
Q552
C554 0.0018
C552 470p
R557 43k
R554 150k
R556 1M
R560 10k
R555 8.5k
Q551
19V
11

4-3. MOUNTING DIAGRAM

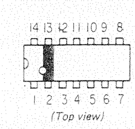
Replacement Semiconductors

For replacement, use semiconductors except in ( ).

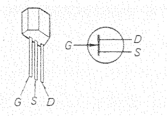
IC201: HA1137W


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

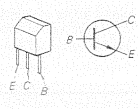
IC202: HA1156


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

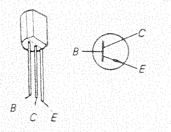
Q101: 2SK42



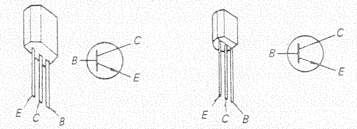
Q102: 2SC535



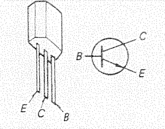
Q103, 404: 2SC710



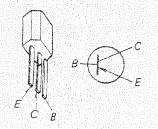
Q201, 202
Q405
Q701, 702 } : **2SC634A (2SC1364)**
Q751, 752
Q501, 551 } : **2SC632A (2SC1362)**
Q602, 652
Q601, 651: 2SC632A (2SC1364)



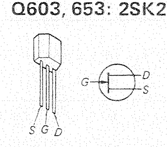
Q301, 351: 2SC634A (2SC632A)
Q401 – 403 } : **2SC403C**
Q407
Q406: 2SC634A (2SC403C)



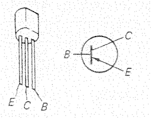
Q502, 552: 2SA705



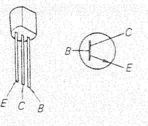
Q603, 653: 2SK23A-534 (2SK23A)



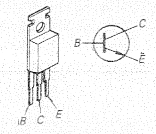
Q703, 753: 2SA896
Q706, 756: 2SA684 (2SA777)



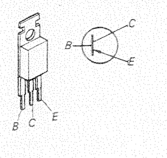
Q704, 754: 2SC1811
Q705, 755: 2SC1475 (2SC1509)



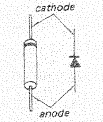
Q707, 757: 2SC1061 (2SD531)
Q801: 2SC1173 (2SD531)



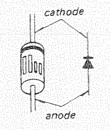
Q708, 758: 2SA671 (2SB521)



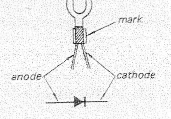
D201 – 203
D401, 402 } : **1S1555 (1T40)**
D601, 651
D403, 404: 1T22A
D801 – 806: 10E2


cathode
anode

D602: EQB01-12 (EQA01-12)
D807: EQB01-16 (EQA01-16)

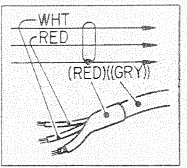

cathode
anode

D701, 751: SV04F

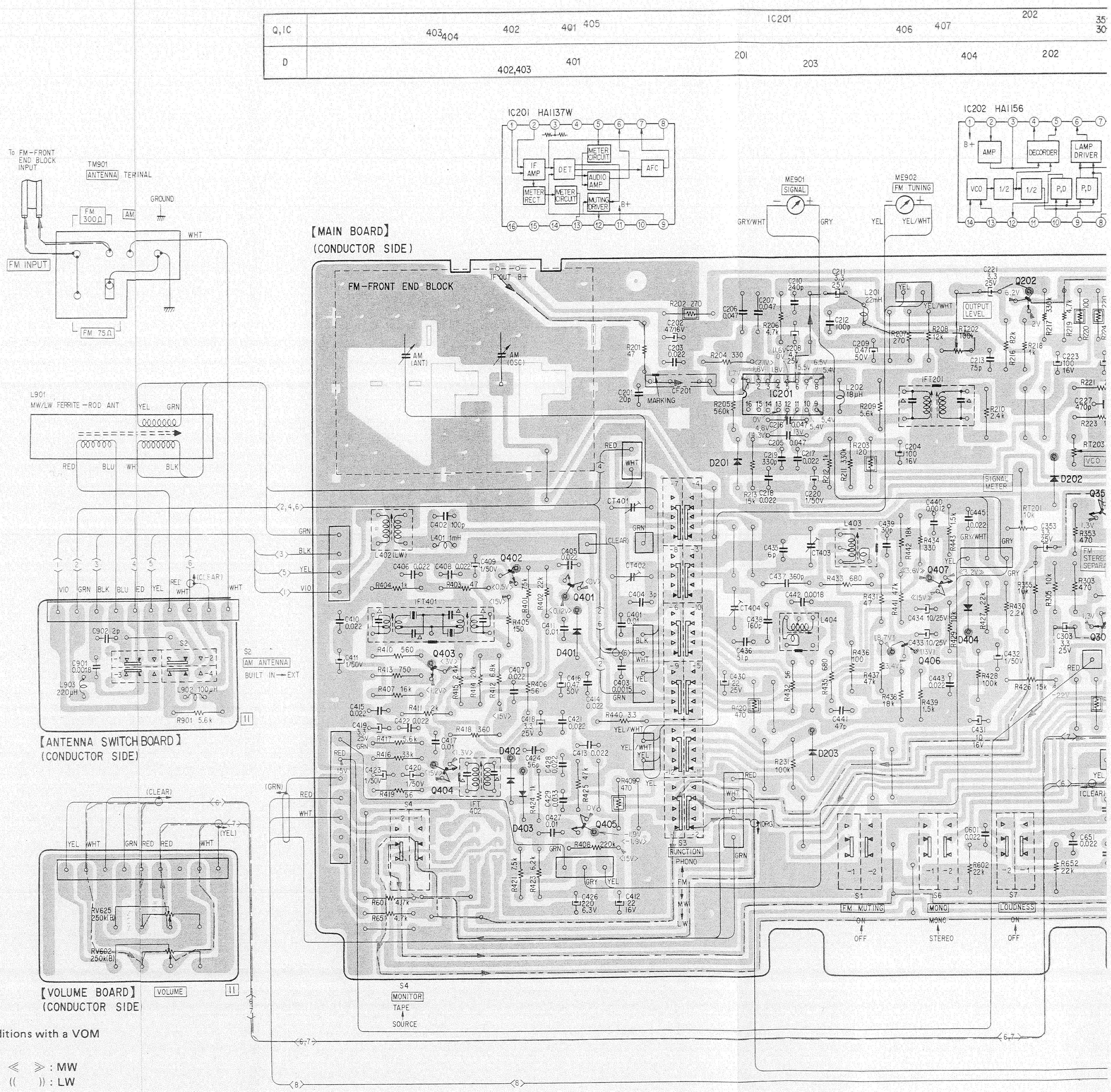

mark
anode
cathode

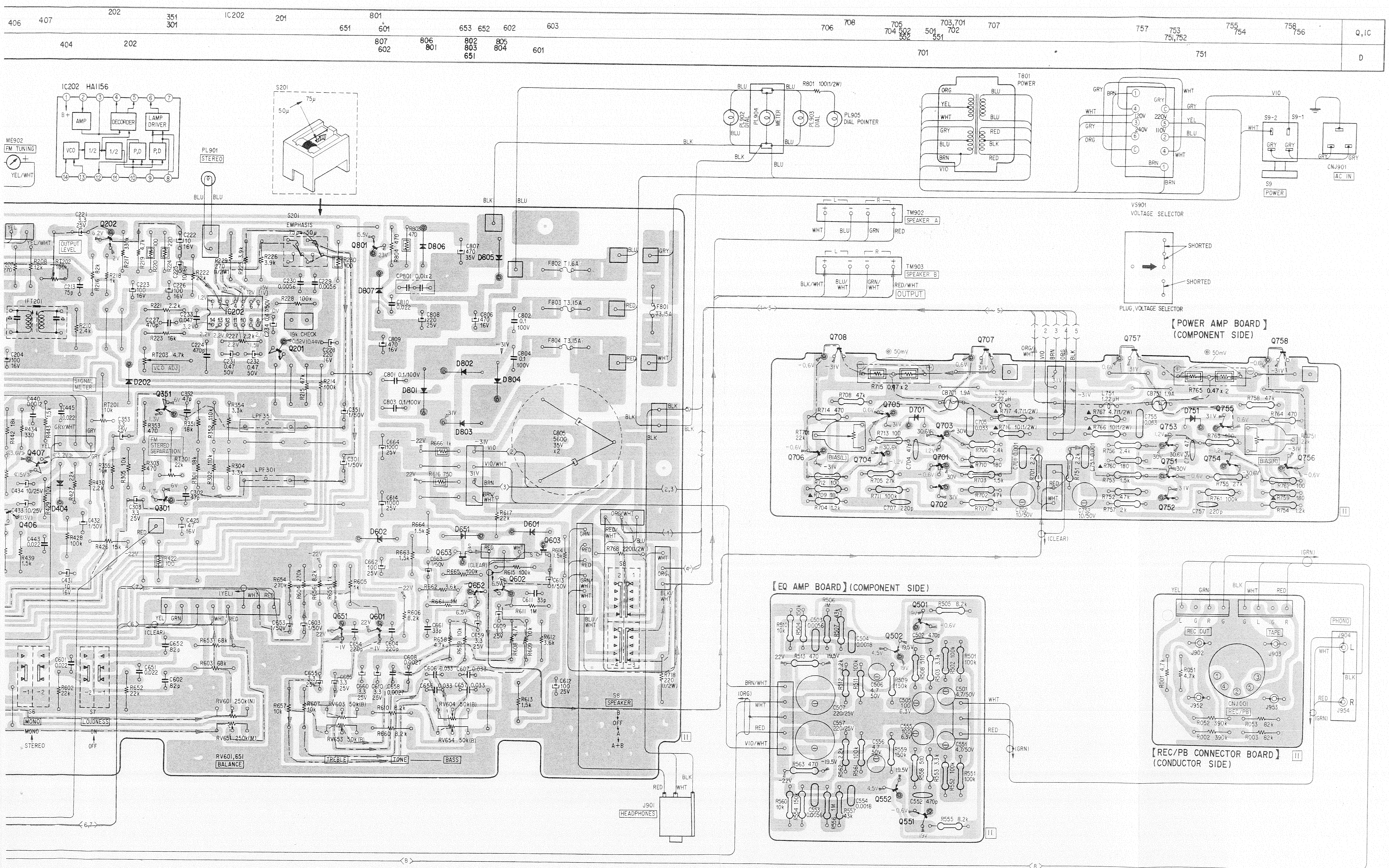
Note:

- Color code of sleeving over the end of the jacket.

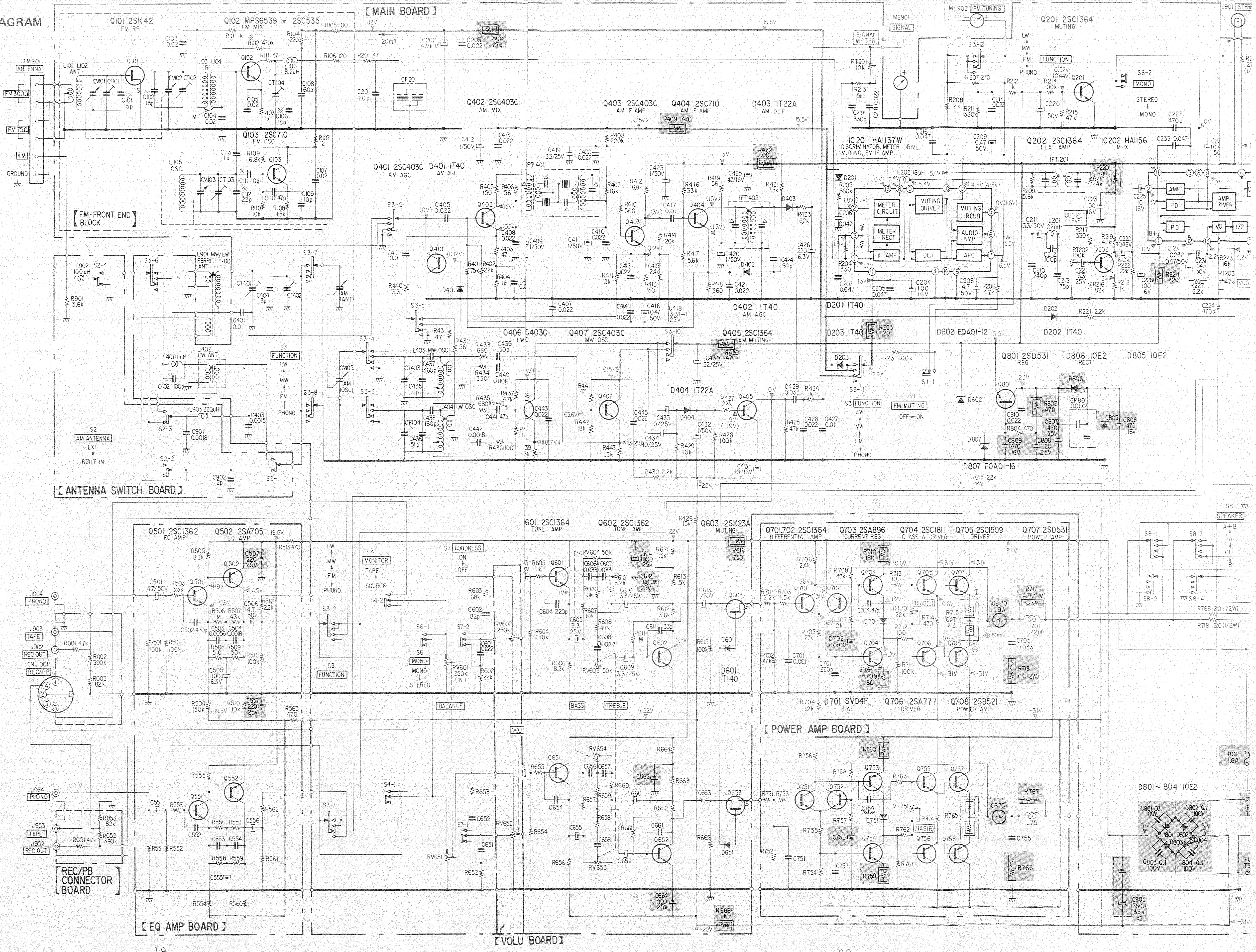

WHT
RED
(RED)(GRY)

- ▨ : B+ pattern
- ▨ : B– pattern
- —·—·— : signal path { —·—▸— : L-CH, -----▸- : R-CH
- ▲ : nonflammable resistor.
- Readings are taken under detuned conditions with a VOM (20 kΩ/V).
  ( ) : FM MUTING (S1) . . . ON   ≪ ≫ : MW
  [ ] : FM STEREO   (( )) : LW
  < > : AM (MW, LW)


Q,IC
403 404 402 401 405 IC201 406 407 202
D
402,403 401 201 203 404 202
IC201 HA1137W
IF AMP
DET
METER CIRCUIT
AUDIO AMP
AFC
METER RECT
METER CIRCUIT
MUTING DRIVER
B+
IC202 HA1156
B+
AMP
DECORDER
LAMP DRIVER
VCO
1/2
1/2
P.D
P.D
ME901 SIGNAL
ME902 FM TUNING
GRY/WHT
GRY
YEL
YEL/WHT
To FM-FRONT END BLOCK INPUT
TM901 ANTENNA TERMINAL
FM 300Ω
AM
GROUND
FM INPUT
FM 75Ω
WHT
L901 MW/LW FERRITE-ROD ANT
YEL GRN
RED BLU WHT BLK
VIO GRN BLK BLU RED YEL
(CLEAR)
S2 AM ANTENNA BUILT IN→EXT
L903 220μH
L902 100μH
R901 5.6k
[ANTENNA SWITCH BOARD]
(CONDUCTOR SIDE)
[MAIN BOARD]
(CONDUCTOR SIDE)
FM-FRONT END BLOCK
IF OUT B+
AM (ANT)
AM (OSC)
IC201
IFT201
CF201
MARKING
Q202
D201
D202
OUTPUT LEVEL
SIGNAL METER
VCO
Q401
Q402
Q403
Q404
Q405
Q406
Q407
D401
D402
D403
D404
D203
IFT401
IFT402
CT401
CT402
CT403
CT404
L401
L402 (LW)
L403
L404
FM STEREO SEPARATION
S3 FUNCTION
PHONO
FM
MW
LW
S4 MONITOR TAPE SOURCE
S1 FM MUTING ON OFF
S6 MONO MONO STEREO
S7 LOUDNESS ON OFF
RV625 250k(B)
RV602 250k(B)
[VOLUME BOARD]
(CONDUCTOR SIDE)
VOLUME
(GRN)
RED
WHT
<2,4,6>
<3>
<5>
<1>
<6,7>
<8>

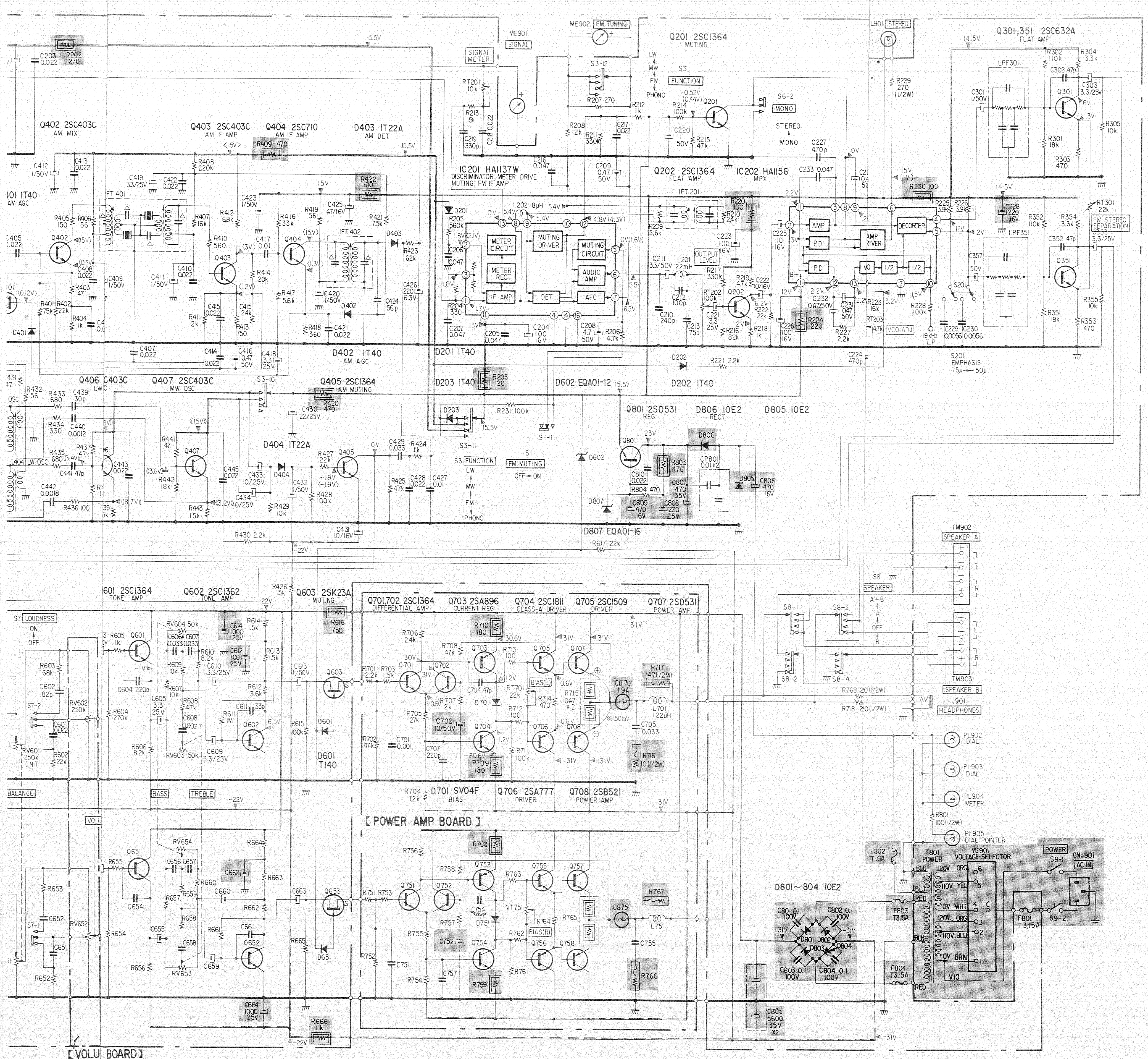

IC202 HA1156
AMP
DECORDER
LAMP DRIVER
VCO
ME902 FM TUNING
PL901 STEREO
S201
EMPHASIS
OUTPUT LEVEL
SIGNAL METER
VCO ADJ
FM STEREO SEPARATION
19k CHECK
LPF351
LPF301
PL902 DIAL
PL904 METER
PL903 DIAL
PL905 DIAL POINTER
R801 100(1/2W)
T801 POWER
VS901 VOLTAGE SELECTOR
S9 POWER
CNJ901 AC IN
SHORTED
PLUG, VOLTAGE SELECTOR
TM902 SPEAKER A
TM903 SPEAKER B
OUTPUT
F802 T1.6A
F803 T3.15A
F804 T3.15A
F801 T3.15A
C805 5600 35V x2
S8 SPEAKER
B OFF A A+B
J901 HEADPHONES
S6 MONO
MONO STEREO
S7 LOUDNESS
ON OFF
RV601 250k(N)
RV651 250k(M)
RV601,651 BALANCE
RV603 50k(B)
RV653 50k(B)
TREBLE
TONE
RV604 50k(B)
RV654 50k(B)
BASS
[POWER AMP BOARD]
(COMPONENT SIDE)
BIAS(L)
BIAS(R)
[EQ AMP BOARD] (COMPONENT SIDE)
[REC/PB CONNECTOR BOARD]
(CONDUCTOR SIDE)
REC OUT
TAPE
PHONO
CNJ001 REC/PB
J902
J903
J904
J952
J953
J954
Q,IC
D

4-4. SCHEMATIC DIAGRAM



[MAIN BOARD]
Q101 2SK42 FM RF
Q102 MPS6539 or 2SC535 FM MIX
Q103 2SC710 FM OSC
TM901 ANTENNA
FM 300Ω
FM 75Ω
AM
GROUND
[FM·FRONT END BLOCK]
Q401 2SC403C AM AGC
D401 1T40 AM AGC
Q402 2SC403C AM MIX
Q403 2SC403C AM IF AMP
Q404 2SC710 AM IF AMP
D403 1T22A AM DET
D402 1T40 AM AGC
Q405 2SC1364 AM MUTING
Q406 2SC403C LWC
Q407 2SC403C MW OSC
D404 1T22A
IFT 401
IFT 402
L901 MW/LW FERRITE-ROD ANT
L401 1mH
L402 LW ANT
L403 MW OSC
L404 LW OSC
L902 100μH
L903 220μH
S2 AM ANTENNA EXT BUILT IN
[ANTENNA SWITCH BOARD]
S3 FUNCTION LW MW FM PHONO
ME901 SIGNAL
ME902 FM TUNING
Q201 2SC1364 MUTING
Q202 2SC1364 FLAT AMP
IC201 HA1137W DISCRIMINATOR, METER DRIVE MUTING, FM IF AMP
IC202 HA1156 MPX
METER CIRCUIT
METER RECT
IF AMP
DET
MUTING DRIVER
MUTING CIRCUIT
AUDIO AMP
AFC
OUT PUT LEVEL
IFT 201
AMP
PD
VO
1/2
S6-2 MONO STEREO
D201 1T40
D203 1T40
D202 1T40
D602 EQA01-12
Q801 2SD531 REG
D806 10E2 RECT
D805 10E2
D807 EQA01-16
S1 FM MUTING OFF ON
Q501 2SC1362 EQ AMP
Q502 2SA705 EQ AMP
Q551
Q552
J904 PHONO
J903 TAPE
J902 REC OUT
CNJ 001 REC/PB
J954 PHONO
J953 TAPE
J952 REC OUT
[REC/PB CONNECTOR BOARD]
[EQ AMP BOARD]
S4 MONITOR TAPE SOURCE
S6 MONO STEREO
S7 LOUDNESS ON OFF
Q601 2SC1364 TONE AMP
Q602 2SC1362 TONE AMP
Q603 2SK23A MUTING
Q651
Q652
Q653
BALANCE
BASS
TREBLE
VOLU
[VOLU BOARD]
D601 1T40
Q701,702 2SC1364 DIFFERENTIAL AMP
Q703 2SA896 CURRENT REG
Q704 2SC1811 CLASS-A DRIVER
Q705 2SC1509 DRIVER
Q707 2SD531 POWER AMP
D701 SV04F BIAS
Q706 2SA777 DRIVER
Q708 2SB521 POWER AMP
BIAS(L)
BIAS(R)
CB 701
CB 751
[POWER AMP BOARD]
S8 SPEAKER A+B A OFF B
D801~804 10E2
F802 T1.6A

STR-2800L

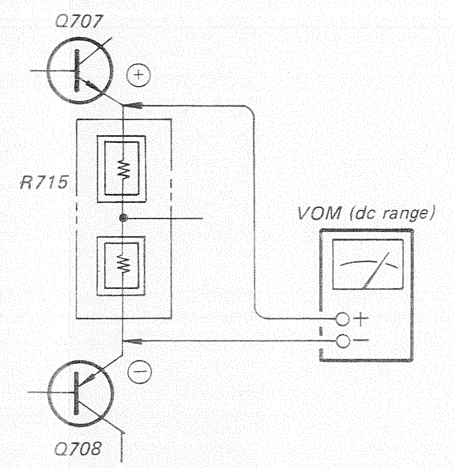


ME901 SIGNAL
SIGNAL METER
ME902 FM TUNING
Q201 2SC1364 MUTING
S3 FUNCTION
L901 STEREO
Q301,351 2SC632A FLAT AMP
Q402 2SC403C AM MIX
Q403 2SC403C AM IF AMP
Q404 2SC710 AM IF AMP
D403 1T22A AM DET
IC201 HA1137W DISCRIMINATOR, METER DRIVE MUTING, FM IF AMP
Q202 2SC1364 FLAT AMP
IC202 HA1156 MPX
METER CIRCUIT
MUTING DRIVER
MUTING CIRCUIT
METER RECT
AUDIO AMP
IF AMP
DET
AFC
AMP
PD
DECORDER
AMP DRIVER
VO
1/2
LPF301
LPF351
FM STEREO SEPARATION
VCO ADJ
S201 EMPHASIS 75μ ← 50μ
D201 1T40
D203 1T40
D402 1T40 AM AGC
D202 1T40
Q406 2SC403C LW OSC
Q407 2SC403C MW OSC
Q405 2SC1364 AM MUTING
D404 1T22A
D602 EQA01-12
Q801 2SD531 REG
D806 10E2 RECT
D805 10E2
D807 EQA01-16
S1 FM MUTING OFF ← ON
Q601 2SC1364 TONE AMP
Q602 2SC1362 TONE AMP
Q603 2SK23A MUTING
Q701,702 2SC1364 DIFFERENTIAL AMP
Q703 2SA896 CURRENT REG
Q704 2SC1811 CLASS-A DRIVER
Q705 2SC1509 DRIVER
Q707 2SD531 POWER AMP
D701 SV04F BIAS
Q706 2SA777 DRIVER
Q708 2SB521 POWER AMP
D601 T140
S7 LOUDNESS ON OFF
BALANCE
BASS
TREBLE
VOL
[POWER AMP BOARD]
[VOLU BOARD]
TM902 SPEAKER A
TM903 SPEAKER B
S8 SPEAKER A+B A OFF B
J901 HEADPHONES
PL902 DIAL
PL903 DIAL
PL904 METER
PL905 DIAL POINTER
D801~804 10E2
T801 POWER
VS901 VOLTAGE SELECTOR
POWER
CNJ901 AC IN
F801 T3.15A
F802 T1.6A
F803 T3.15A
F804 T3.15A
C805 5600 35V ×2

Note:

- All capacitors are in μF unless otherwise noted. pF = μμF. 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼ W unless otherwise noted. kΩ = 1000 Ω, MΩ = 1000 kΩ
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- ⏚ : chassis ground.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- ※ : selected to yield optimum performance.
- △ : internal component.
- ⏚ : direct connection to points marked on the chassis.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- Readings are taken under detuned conditions with a VOM (20 kΩ/V).

  ( ) : FM MUTING (S1) . . . ON ≪ ≫ : MW
  [ ] : FM STEREO (( )) : LW
  < > : AM (MW, LW)
- ▬ : B+ bus.
- ▬ ▬ ▬ : B– bus.
- Components for right channel have the same values as for left channel.
- ◉ : measured as shown below.



Q707
R715
VOM (dc range)
Q708

- Switch:

Ref. No.	Switch	Position
S1	FM MUTING	OFF
S2	AM ANTENNA	BUILT IN
S3	FUNCTION	PHONO
S4	MONITOR	SOURCE
S6	MONO	STEREO
S7	LOUDNESS	OFF
S8	SPEAKER	B
S9	POWER	OFF
S201	EMPHASIS	50μ

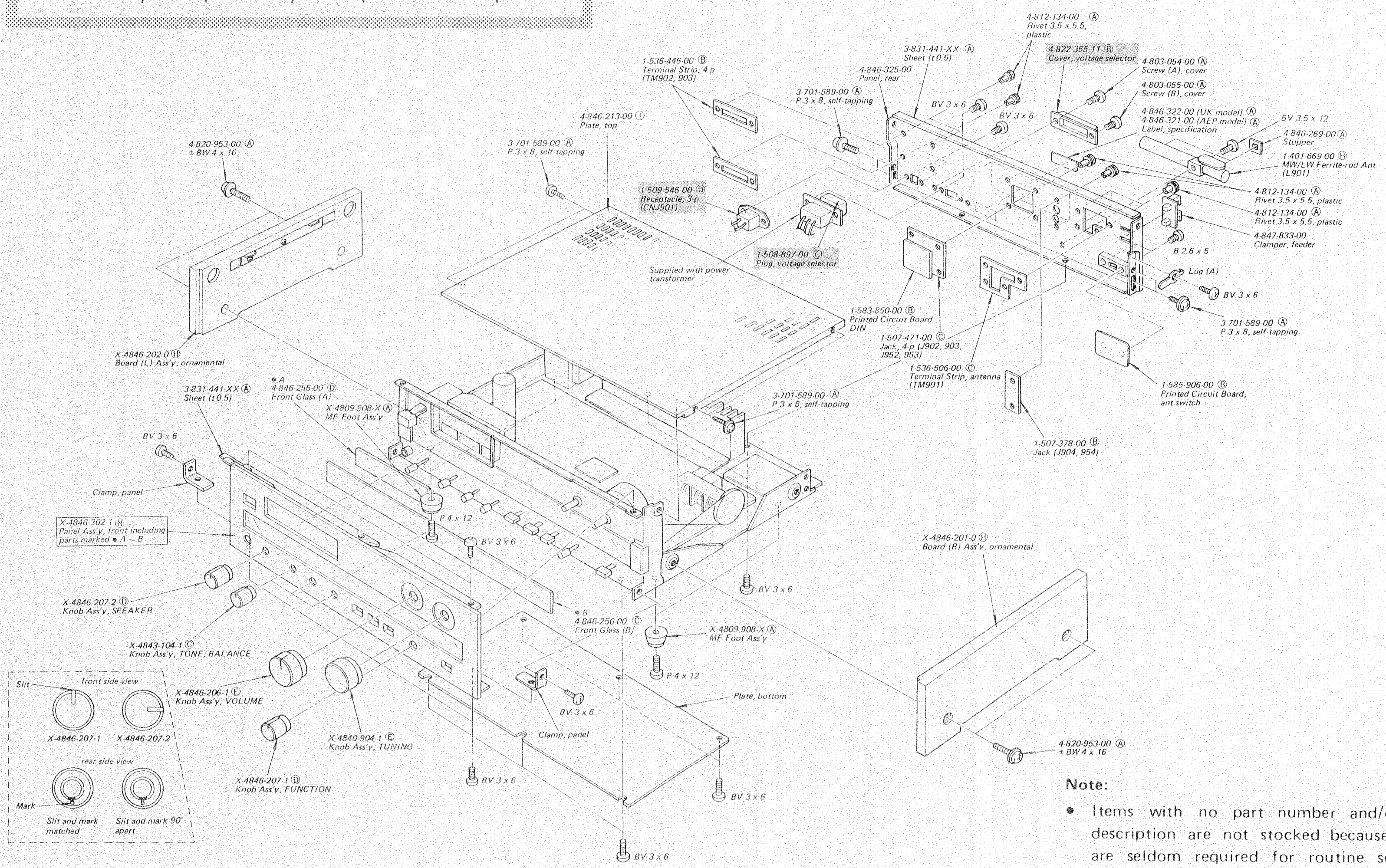
Note: The components identified by shading are critical for safety. Replace only with part number specified.

SECTION 5

EXPLODED VIEWS

5-1.

Note: The components identified by shading are critical for safety. Replace only with part number specified.

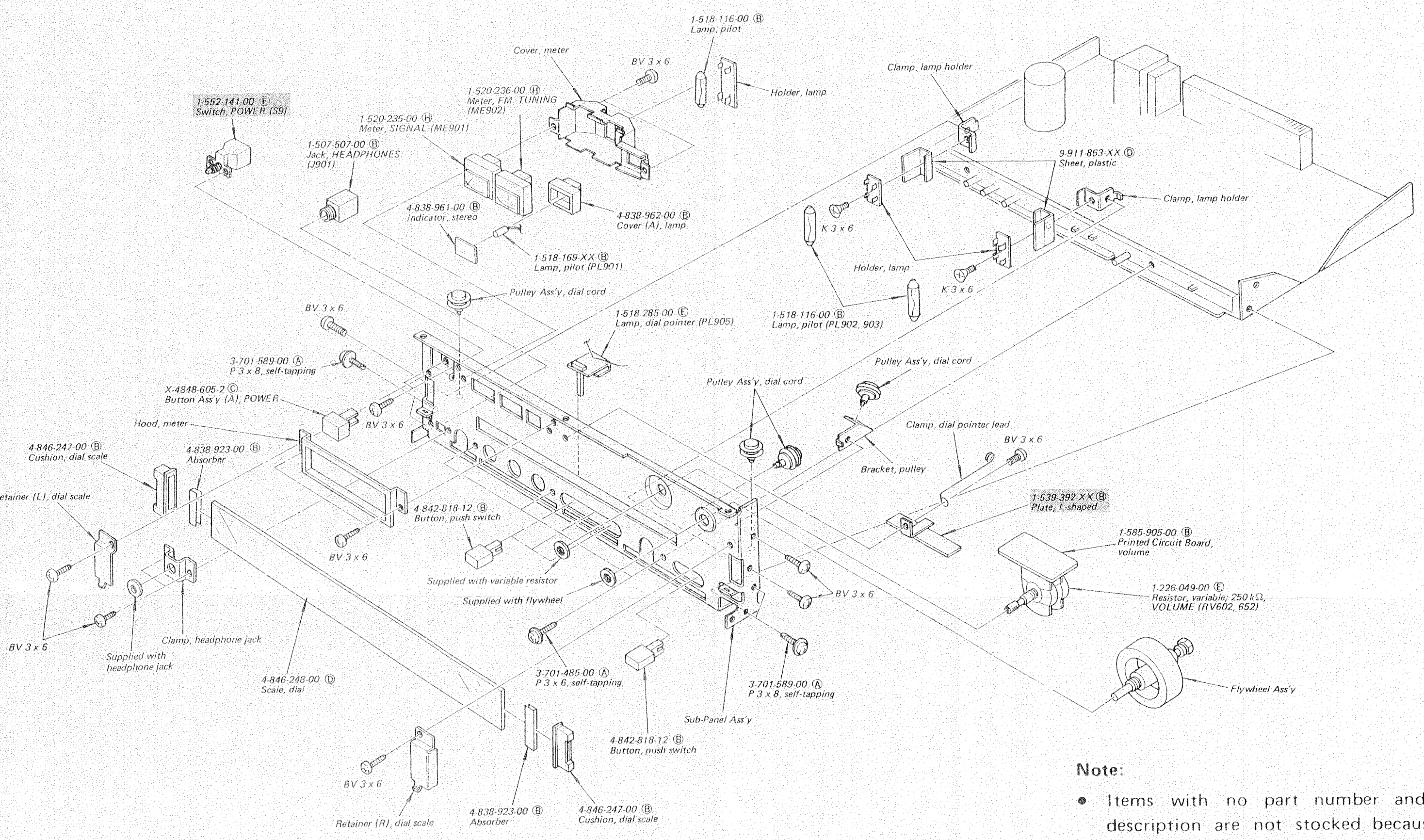

A
B
C
D
E
1
2
3
4-812-134-00 Ⓐ
Rivet 3.5 x 5.5, plastic
3-831-441-XX Ⓐ
Sheet (t 0.5)
4-822-355-11 Ⓑ
Cover, voltage selector
4-803-054-00 Ⓐ
Screw (A), cover
4-803-055-00 Ⓐ
Screw (B), cover
1-536-446-00 Ⓑ
Terminal Strip, 4-p (TM902, 903)
4-846-325-00
Panel, rear
3-701-589-00 Ⓐ
P 3 x 8, self-tapping
BV 3 x 6
BV 3 x 6
4-846-322-00 (UK model) Ⓐ
4-846-321-00 (AEP model) Ⓐ
Label, specification
BV 3.5 x 12
4-846-269-00 Ⓐ
Stopper
4-846-213-00 Ⓘ
Plate, top
3-701-589-00 Ⓐ
P 3 x 8, self-tapping
1-401-669-00 Ⓗ
MW/LW Ferrite-rod Ant (L901)
4-820-953-00 Ⓐ
± BW 4 x 16
1-509-546-00 Ⓓ
Receptacle, 3-p (CNJ901)
4-812-134-00 Ⓐ
Rivet 3.5 x 5.5, plastic
4-812-134-00 Ⓐ
Rivet 3.5 x 5.5, plastic
4-847-833-00
Clamper, feeder
B 2.6 x 5
1-508-897-00 Ⓒ
Plug, voltage selector
Supplied with power transformer
Lug (A)
BV 3 x 6
1-583-850-00 Ⓑ
Printed Circuit Board DIN
3-701-589-00 Ⓐ
P 3 x 8, self-tapping
1-507-471-00 Ⓒ
Jack, 4-p (J902, 903, J952, 953)
1-536-506-00 Ⓒ
Terminal Strip, antenna (TM901)
X-4846-202-0 Ⓗ
Board (L) Ass'y, ornamental
3-831-441-XX Ⓐ
Sheet (t 0.5)
● A
4-846-255-00 Ⓓ
Front Glass (A)
X-4809-908-X Ⓐ
MF Foot Ass'y
3-701-589-00 Ⓐ
P 3 x 8, self-tapping
1-585-906-00 Ⓑ
Printed Circuit Board, ant switch
BV 3 x 6
1-507-378-00 Ⓑ
Jack (J904, 954)
Clamp, panel
X-4846-302-1 Ⓝ
Panel Ass'y, front including parts marked ● A ~ B
P 4 x 12
BV 3 x 6
X-4846-201-0 Ⓗ
Board (R) Ass'y, ornamental
BV 3 x 6
X-4846-207-2 Ⓓ
Knob Ass'y, SPEAKER
● B
4-846-256-00 Ⓒ
Front Glass (B)
X-4809-908-X Ⓐ
MF Foot Ass'y
X-4843-104-1 Ⓒ
Knob Ass'y, TONE, BALANCE
P 4 x 12
Slit
front side view
X-4846-206-1 Ⓔ
Knob Ass'y, VOLUME
Plate, bottom
BV 3 x 6
X-4846-207-1
X-4846-207-2
X-4840-904-1 Ⓔ
Knob Ass'y, TUNING
Clamp, panel
4-820-953-00 Ⓐ
± BW 4 x 16
rear side view
Mark
Slit and mark matched
Slit and mark 90° apart
X-4846-207-1 Ⓓ
Knob Ass'y, FUNCTION
BV 3 x 6
BV 3 x 6
BV 3 x 6

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

5-2.

Note: The components identified by shading are critical for safety. Replace only with part number specified.


A
B
C
D
E
1
2
3
1-518-116-00 Ⓑ
Lamp, pilot
Cover, meter
BV 3 x 6
Holder, lamp
Clamp, lamp holder
1-520-236-00 Ⓗ
Meter, FM TUNING (ME902)
1-552-141-00 Ⓔ
Switch, POWER (S9)
1-520-235-00 Ⓗ
Meter, SIGNAL (ME901)
1-507-507-00 Ⓑ
Jack, HEADPHONES (J901)
9-911-863-XX Ⓓ
Sheet, plastic
Clamp, lamp holder
4-838-961-00 Ⓑ
Indicator, stereo
4-838-962-00 Ⓑ
Cover (A), lamp
K 3 x 6
1-518-169-XX Ⓑ
Lamp, pilot (PL901)
Holder, lamp
K 3 x 6
Pulley Ass'y, dial cord
BV 3 x 6
1-518-285-00 Ⓔ
Lamp, dial pointer (PL905)
1-518-116-00 Ⓑ
Lamp, pilot (PL902, 903)
3-701-589-00 Ⓐ
P 3 x 8, self-tapping
Pulley Ass'y, dial cord
Pulley Ass'y, dial cord
X-4848-605-2 Ⓒ
Button Ass'y (A), POWER
BV 3 x 6
Hood, meter
Clamp, dial pointer lead
BV 3 x 6
4-846-247-00 Ⓑ
Cushion, dial scale
4-838-923-00 Ⓑ
Absorber
Bracket, pulley
Retainer (L), dial scale
4-842-818-12 Ⓑ
Button, push switch
1-539-392-XX Ⓑ
Plate, L-shaped
BV 3 x 6
1-585-905-00 Ⓑ
Printed Circuit Board, volume
Supplied with variable resistor
Supplied with flywheel
BV 3 x 6
1-226-049-00 Ⓔ
Resistor, variable; 250 kΩ, VOLUME (RV602, 652)
BV 3 x 6
Clamp, headphone jack
Supplied with headphone jack
4-846-248-00 Ⓓ
Scale, dial
3-701-485-00 Ⓐ
P 3 x 6, self-tapping
3-701-589-00 Ⓐ
P 3 x 8, self-tapping
Flywheel Ass'y
Sub-Panel Ass'y
4-842-818-12 Ⓑ
Button, push switch
BV 3 x 6
Retainer (R), dial scale
4-838-923-00 Ⓑ
Absorber
4-846-247-00 Ⓑ
Cushion, dial scale

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

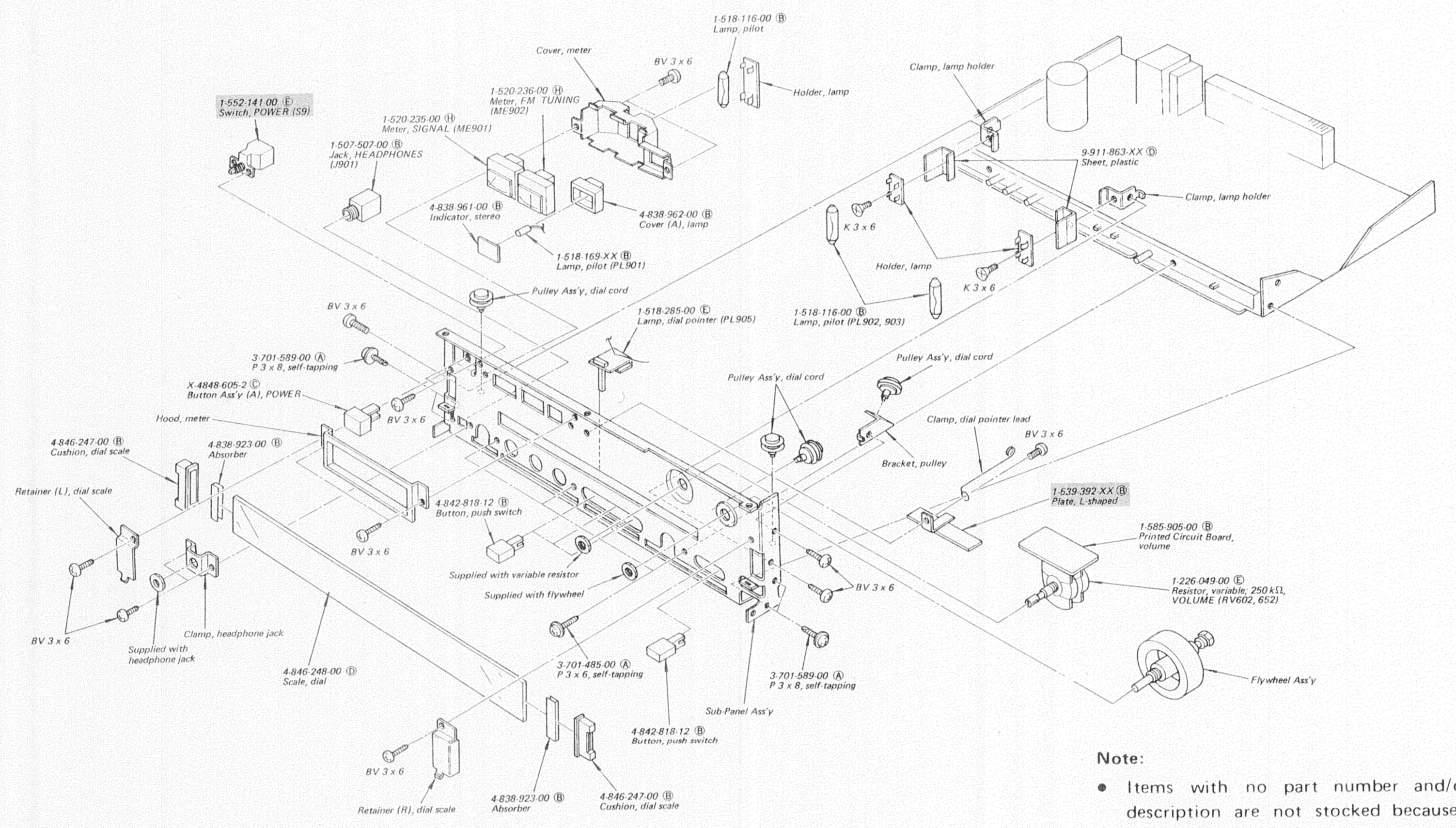
A B C D E

5-3.

Note: The components identified by shading are critical for

5-2.

Note: The components identified by shading are critical for safety. Replace only with part number specified.

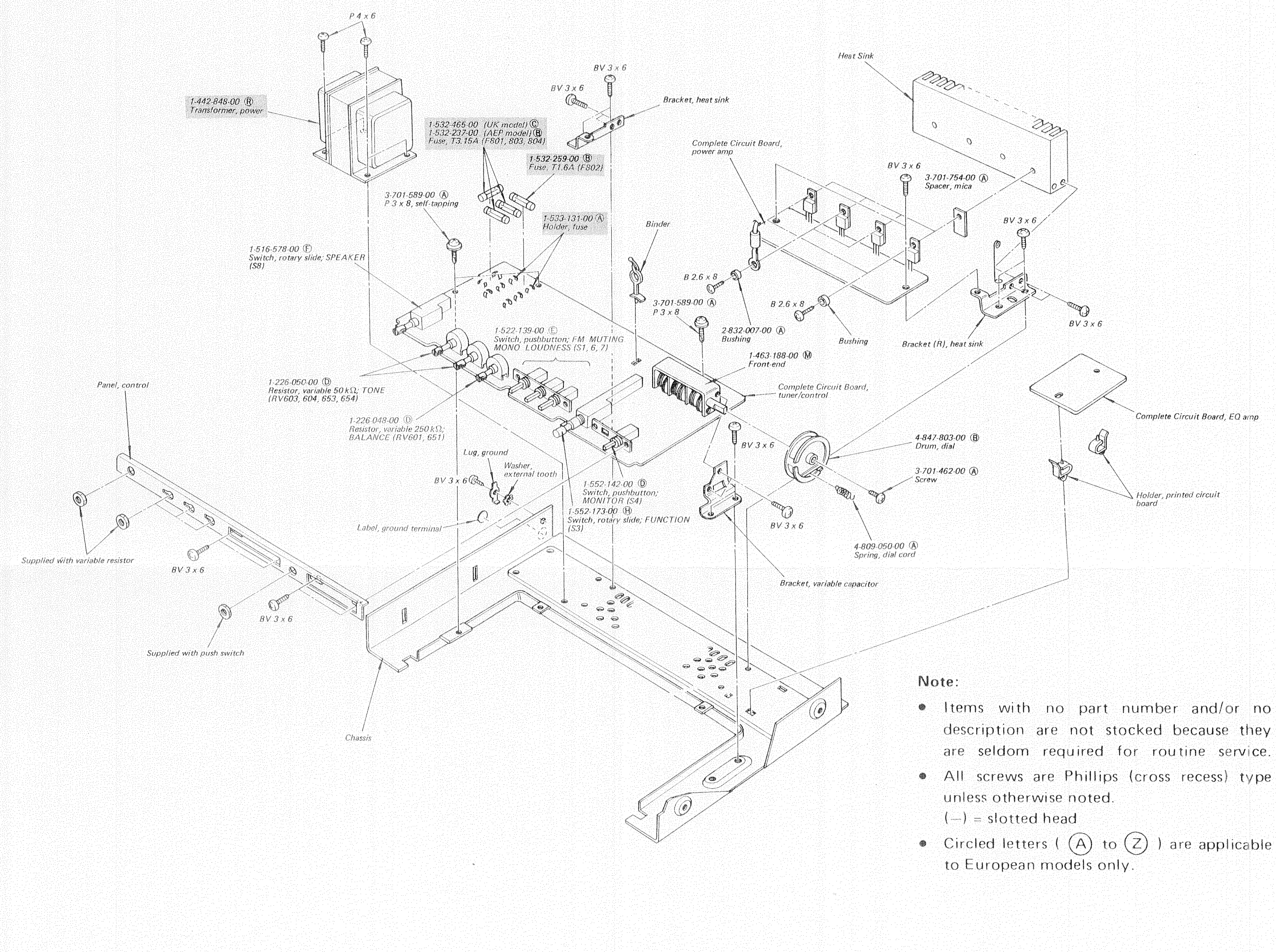

1-518-116-00 Ⓑ
Lamp, pilot
Cover, meter
BV 3 x 6
Holder, lamp
1-552-141-00 Ⓔ
Switch, POWER (S9)
1-520-236-00 Ⓗ
Meter, FM TUNING (ME902)
1-520-235-00 Ⓗ
Meter, SIGNAL (ME901)
1-507-507-00 Ⓑ
Jack, HEADPHONES (J901)
4-838-961-00 Ⓑ
Indicator, stereo
4-838-962-00 Ⓑ
Cover (A), lamp
1-518-169-XX Ⓑ
Lamp, pilot (PL901)
Clamp, lamp holder
9-911-863-XX Ⓓ
Sheet, plastic
Clamp, lamp holder
K 3 x 6
Holder, lamp
K 3 x 6
1-518-116-00 Ⓑ
Lamp, pilot (PL902, 903)
Pulley Ass'y, dial cord
1-518-285-00 Ⓔ
Lamp, dial pointer (PL905)
BV 3 x 6
3-701-589-00 Ⓐ
P 3 x 8, self-tapping
X-4848-605-2 Ⓒ
Button Ass'y (A), POWER
BV 3 x 6
Hood, meter
Pulley Ass'y, dial cord
Pulley Ass'y, dial cord
Bracket, pulley
Clamp, dial pointer lead
BV 3 x 6
1-639-392-XX Ⓑ
Plate, L-shaped
4-846-247-00 Ⓑ
Cushion, dial scale
4-838-923-00 Ⓑ
Absorber
Retainer (L), dial scale
4-842-818-12 Ⓑ
Button, push switch
BV 3 x 6
Supplied with variable resistor
Supplied with flywheel
1-585-905-00 Ⓑ
Printed Circuit Board, volume
1-226-049-00 Ⓔ
Resistor, variable, 250 kΩ, VOLUME (RV602, 652)
BV 3 x 6
BV 3 x 6
Clamp, headphone jack
Supplied with headphone jack
4-846-248-00 Ⓓ
Scale, dial
3-701-485-00 Ⓐ
P 3 x 6, self-tapping
3-701-589-00 Ⓐ
P 3 x 8, self-tapping
Sub-Panel Ass'y
Flywheel Ass'y
4-842-818-12 Ⓑ
Button, push switch
BV 3 x 6
Retainer (R), dial scale
4-838-923-00 Ⓑ
Absorber
4-846-247-00 Ⓑ
Cushion, dial scale

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

5-3.

Note: The components identified by shading are critical for safety. Replace only with part number specified.


P 4 x 6
1-442-848-00 Ⓡ
Transformer, power
BV 3 x 6
BV 3 x 6
Bracket, heat sink
Heat Sink
1-532-465-00 (UK model) Ⓒ
1-532-237-00 (AEP model) Ⓑ
Fuse, T3.15A (F801, 803, 804)
1-532-259-00 Ⓑ
Fuse, T1.6A (F802)
Complete Circuit Board, power amp
BV 3 x 6
3-701-754-00 Ⓐ
Spacer, mica
3-701-589-00 Ⓐ
P 3 x 8, self-tapping
1-533-131-00 Ⓐ
Holder, fuse
Binder
BV 3 x 6
1-516-578-00 Ⓕ
Switch, rotary slide; SPEAKER (S8)
B 2.6 x 8
3-701-589-00 Ⓐ
P 3 x 8
B 2.6 x 8
2-832-007-00 Ⓐ
Bushing
Bushing
Bracket (R), heat sink
BV 3 x 6
1-522-139-00 Ⓔ
Switch, pushbutton; FM MUTING MONO LOUDNESS (S1, 6, 7)
1-463-188-00 Ⓜ
Front-end
Complete Circuit Board, tuner/control
Panel, control
1-226-050-00 Ⓓ
Resistor, variable 50 kΩ; TONE (RV603, 604, 653, 654)
1-226-048-00 Ⓓ
Resistor, variable 250 kΩ; BALANCE (RV601, 651)
Complete Circuit Board, EQ amp
BV 3 x 6
4-847-803-00 Ⓑ
Drum, dial
3-701-462-00 Ⓐ
Screw
Lug, ground
Washer, external tooth
BV 3 x 6
1-552-142-00 Ⓓ
Switch, pushbutton; MONITOR (S4)
1-552-173-00 Ⓗ
Switch, rotary slide; FUNCTION (S3)
Label, ground terminal
BV 3 x 6
4-809-050-00 Ⓐ
Spring, dial cord
Holder, printed circuit board
Supplied with variable resistor
BV 3 x 6
Bracket, variable capacitor
BV 3 x 6
Supplied with push switch
Chassis

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

SECTION 6

ELECTRICAL PARTS LIST

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

PRINTED CIRCUIT BOARDS

Ref. No.	*Part No.*	*Description*
	1-583-850-00	Ⓑ DIN
	1-585-905-00	Ⓑ Volume
	1-585-906-00	Ⓑ Ant Switch

SEMICONDUCTORS

Transistors

Ref. No.	*Part No.*	*Description*
⇒ Q201, 202		Ⓑ 2SC634A
⇒ Q301, 351		Ⓑ 2SC634A
Q401 ~ 403		Ⓓ 2SC403C
Q404		Ⓑ 2SC710
⇒ Q405, 406		Ⓑ 2SC634A
Q407		Ⓓ 2SC403C
⇒ Q501, 551		Ⓑ 2SC632A
Q502, 552		Ⓑ 2SA705
⇒ Q601, 651		Ⓑ 2SC632A
⇒ Q602, 652		
⇒ Q603, 653		Ⓒ 2SK23A-534
⇒ Q701, 751		Ⓑ 2SC634A
⇒ Q702, 752		
Q703, 753		Ⓒ 2SA896
Q704, 754		Ⓒ 2SC1811
⇒ Q705, 754		Ⓒ 2SC1475
⇒ Q706, 756		Ⓒ 2SA684
⇒ Q707, 757		Ⓓ 2SC1061
⇒ Q708, 758		Ⓔ 2SA671
IC201		Ⓗ HA-1137W
IC202		Ⓙ HA-1156

Diode

Ref. No.	*Part No.*	*Description*
⇒ D201 ~ 203		Ⓑ 1S1555
⇒ D401, 402		Ⓑ 1S1555
D403, 404		Ⓑ 1T22A
⇒ D601, 651		Ⓑ 1S1555
⇒ D602		Ⓑ EQB01-12
D701, 751		Ⓑ SV-04F
⇒ D801 ~ 806		Ⓑ 10E-2
⇒ D807		Ⓑ EQB01-16

⇒ : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

COILS

Ref. No.	*Part No.*	*Description*
L201	1-407-210-XX	Ⓑ 22μH, microinductor
L202	1-407-741-00	Ⓐ 18μH, microinductor
L401	1-407-195-XX	Ⓑ 1mH, microinductor
L402	1-401-664-00	Ⓑ LW ANT
L403	1-405-732-11	Ⓑ MW OSC
L404	1-405-731-11	Ⓑ LW OSC
L901	1-401-669-00	Ⓗ MW/LW, ferrite-rod antenna
L902	1-407-169-XX	Ⓐ 100μH, microinductor
L903	1-407-173-XX	Ⓐ 220μH, microinductor

TRANSFORMERS

Ref. No.	*Part No.*	*Description*
IFT201	1-404-011-00	Ⓒ FM IFT
IFT401	1-403-963-21	Ⓔ AM IFT,-468 kHz
IFT402	1-403-149-00	Ⓑ AM IFT
T801	1-442-848-00	Ⓡ Power

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics.
pF = μμF, elect = electrolytic

Ref. No.	*Part No.*	*Description*		
C201	1-102-958-11	Ⓐ 20 p		
C202	1-121-409-11	Ⓐ 47	16 V	elect
C203	1-101-924-11	Ⓐ 0.022		
C204	1-121-415-11	Ⓑ 100	16 V	elect
C205 ~ 207	1-101-925-11	Ⓐ 0.047		
C208	1-121-395-11	Ⓐ 4.7	25 V	elect

Note: The components identified by shading are critical for safety. Replace only with part number specified.

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	*Part No.*	*Description*		
C209	1-121-726-11	Ⓐ 0.47	50 V	elect
C210	1-102-979-11	Ⓐ 240 p		
C211	1-121-392-11	Ⓐ 3.3	25 V	elect
C212	1-102-973-11	Ⓐ 100 p		
C213	1-101-890-11	Ⓐ 75 p		
C216	1-101-925-11	Ⓐ 0.047		
C217, 218	1-101-924-11	Ⓐ 0.022		
C219	1-102-820-11	Ⓐ 330 p		
C220	1-121-391-11	Ⓐ 1	50 V	elect
C221	1-121-392-11	Ⓐ 3.3	25 V	elect
C222	1-121-916-11	Ⓑ 10	16 V	elect
C223	1-121-415-11	Ⓑ 100	16 V	elect
C224	1-103-717-11	Ⓐ 470 p		polystyrol
C225	1-121-916-11	Ⓑ 10	16 V	elect
C226	1-121-415-11	Ⓑ 100	16 V	elect
C227	1-102-824-11	Ⓐ 470 p		
C228	1-123-068-11	Ⓑ 220	16 V	elect
C229, 230	1-108-834-11	Ⓐ 0.0056		
C231, 232	1-121-726-11	Ⓐ 0.47	50 V	elect
C233	1-108-845-12	Ⓐ 0.047		mylar
C234	1-121-726-11	Ⓐ 0.47	50 V	elect
C301, 351	1-121-912-11	Ⓐ 1	50 V	elect
C302, 352	1-101-880-11	Ⓐ 47 p		
C303, 353	1-121-913-11	Ⓐ 3.3	25 V	elect
C401	1-102-129-11	Ⓐ 0.01		
C402	1-102-973-11	Ⓐ 100 p		
C403	1-108-827-12	Ⓐ 0.0015		mylar
C404	1-102-936-11	Ⓐ 3 p		
C405 ~ 408	1-101-924-11	Ⓐ 0.022		
C409	1-121-391-11	Ⓐ 1	50 V	elect
C410	1-101-924-11	Ⓐ 0.022		
C411	1-121-391-11	Ⓐ 1	50 V	elect
C412	1-121-479-11	Ⓐ 22	16 V	elect
C413 ~ 415	1-101-924-11	Ⓐ 0.022		
C416	1-121-726-11	Ⓐ 0.47	50 V	elect
C417	1-102-129-11	Ⓐ 0.01		

Ref. No.	*Part No.*	*Description*		
C418, 419	1-121-392-11	Ⓐ 3.3	25 V	elect
C420	1-121-391-11	Ⓐ 1	50 V	elect
C421, 422	1-101-924-11	Ⓐ 0.022		
C423	1-121-391-11	Ⓐ 1	50 V	elect
C424	1-101-884-11	Ⓐ 56 p		
C425	1-121-409-11	Ⓐ 47	16 V	elect
C426	1-121-419-11	Ⓑ 220	6.3 V	elect
C427	1-108-239-12	Ⓐ 0.01		mylar
C428	1-108-242-12	Ⓐ 0.022		mylar
C429	1-108-244-12	Ⓐ 0.033		mylar
C430	1-121-480-11	Ⓐ 22	25 V	elect
C431	1-121-651-11	Ⓐ 10	16 V	elect
C432	1-121-391-11	Ⓐ 1	50 V	elect
C433, 434	1-121-398-11	Ⓐ 10	25 V	elect
C435	1-102-943-11	Ⓐ 6 p		
C436	1-101-882-11	Ⓐ 51 p		
C437	1-103-714-11	Ⓐ 360 p		polystyrol
C438	1-103-706-11	Ⓑ 160 p		polystyrol
C439	1-102-962-11	Ⓐ 30 p		
C440	1-108-826-12	Ⓐ 0.0012		mylar
C441	1-101-880-11	Ⓐ 47 p		
C442	1-108-352-12	Ⓐ 0.0018		mylar
C443	1-101-924-11	Ⓐ 0.022		
C444	1-102-129-11	Ⓐ 0.01		
C445	1-101-924-11	Ⓐ 0.022		
C501, 551	1-121-750-11	Ⓐ 4.7	50 V	elect
C502, 552	1-102-824-11	Ⓐ 470 p		
C503, 553	1-108-801-11	Ⓐ 0.0056		
C504, 554	1-108-795-12	Ⓐ 0.0018		mylar
C505, 555	1-121-413-11	Ⓐ 100	6.3 V	elect
C506, 556	1-121-750-11	Ⓐ 4.7	50 V	elect
C507, 557	1-121-936-11	Ⓑ 220	25 V	elect
C601, 651	1-108-242-12	Ⓐ 0.022		mylar
C602, 652	1-102-971-11	Ⓐ 82 p		
C603, 653	1-121-912-11	Ⓐ 1	50 V	elect
C604, 654	1-102-978-11	Ⓐ 220 p		
C605, 655	1-121-913-11	Ⓐ 3.3	25 V	elect

Note: The components identified by shading are critical for safety. Replace only with part number specified.

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	*Part No.*	*Description*		
C606, 656 C607, 657	1-108-244-12	Ⓐ 0.033		mylar
C608, 658	1-108-353-12	Ⓐ 0.0027		mylar
C609, 659 C610, 660	1-121-913-11	Ⓐ 3.3	25 V	elect
C611, 661	1-102-963-11	Ⓐ 33 p		
C612, 662	1-121-935-11	Ⓑ 100	25 V	elect
C613, 663	1-121-391-11	Ⓐ 1	50 V	elect
C614, 664	1-123-066-11	Ⓑ 1000	25 V	elect
C701, 751	1-108-227-12	Ⓐ 0.001		mylar
C702, 752	1-123-183-11	Ⓐ 10	50 V	elect
C704, 754	1-101-880-11	Ⓐ 47 p		
C705, 755	1-108-244-12	Ⓐ 0.033		mylar
C707, 757	1-102-978-11	Ⓐ 220 p		
C801～804	1-108-389-12	Ⓑ 0.1		mylar
C805	1-125-248-11	Ⓚ 5600 + 5600	35 V	elect
C806	1-121-939-11	Ⓑ 470	16 V	elect
C807	1-121-941-11	Ⓑ 470	35 V	elect
C808	1-121-936-11	Ⓑ 220	25 V	elect
C809	1-121-939-11	Ⓑ 470	16 V	elect
C810	1-101-924-11	Ⓐ 0.022		
C901	1-108-828-12	Ⓐ 0.0018		mylar
C902	1-102-935-11	Ⓐ 2 p		
CT401, 402	1-141-138-XX	Ⓑ Trimmer		
CT403, 404	1-141-147-XX	Ⓑ Trimmer		

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted. Check schematic diagram for values.

Ref. No.	*Part No.*	*Description*		
R202	1-211-532-11	Ⓐ 270	¼W	nonflammable
R203	1-211-524-11	Ⓐ 120	¼W	nonflammable
R220	1-211-522-11	Ⓐ 100	¼W	nonflammable
R224	1-211-530-11	Ⓐ 220	¼W	nonflammable
R229	1-244-859-11	Ⓐ 270	½W	
R230	1-211-522-11	Ⓐ 100	¼W	nonflammable
R409, 420	1-211-538-11	Ⓐ 470	¼W	nonflammable
R422	1-211-522-11	Ⓐ 100	¼W	nonflammable
R616	1-211-543-11	Ⓐ 750	¼W	nonflammable
R666	1-211-935-11	Ⓐ 1 k	¼W	nonflammable
R709, 759 R710, 760	1-211-528-11	Ⓐ 180	¼W	nonflammable
R715, 765	1-217-359-11	Ⓑ 0.47 x 2	2W	metal oxide
R716, 766	1-212-958-11	Ⓐ 10	½W	fusible
R717, 767	1-212-950-11	Ⓐ 4.7	½W	fusible
R718, 768	1-244-857-11	Ⓐ 220	½W	
R801	1-244-849-31	Ⓐ 100	½W	
R803	1-211-538-11	Ⓐ 470	¼W	nonflammable
RT201	1-224-645-XX	Ⓑ 10 k, adjustable		
RT202	1-224-648-XX	Ⓑ 100 k, adjustable		
RT203	1-224-644-XX	Ⓑ 4.7 k, adjustable		
RT301	1-222-764-11	Ⓑ 22 k, adjustable		
RT701, 751	1-224-646-XX	Ⓑ 22 k, adjustable		
RV601, 651	1-226-048-00	Ⓓ 250k/250k, variable; BALANCE		
RV602, 652	1-226-049-00	Ⓔ 250k/250k, variable; VOLUME		
RV603, 653 RV604, 654	1-226-050-00	Ⓓ 50 k/50 k, variable; TREBLE, BASS		

SWITCHES

Ref. No.	*Part No.*	*Description*
S1	1-552-139-00	Ⓔ Push, FM MUTING
S2	1-516-783-XX	Ⓒ Slide, AM ANTENNA
S3	1-552-173-00	Ⓗ Rotary Slide, FUNCTION
S4	1-552-142-00	Ⓓ Push, MONITOR
S6, 7	1-552-139-00	Ⓔ Push, MONO, LOUDNESS
S8	1-516-578-00	Ⓕ Rotary Slide, SPEAKER
S9	1-552-141-00	Ⓔ Push, POWER
S201	1-552-130-00	Ⓑ EMPHASIS

JACKS

Ref. No.	*Part No.*	*Description*
J901	1-507-507-00	Ⓑ HEADPHONES

Note: The components identified by shading are critical for safety. Replace only with part number specified.

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	*Part No.*	*Description*
J902, 952 J903, 953	1-507-471-00	Ⓒ TAPE-1, REC OUT 1
J904, 954	1-507-378-XX	Ⓑ PHONO
CNJ001	1-509-549-00	Ⓑ REC/PB
CNJ901	1-509-546-00	Ⓓ Receptacle, AC IN

FUSES

Ref. No.	*Part No.*	*Description*
F801	1-532-237-00 1-532-465-00	Ⓑ Fuse, T3.15A (AEP Model) Ⓒ Fuse, T3.15A (UK Model)
F802	1-532-259-00	Ⓑ Fuse, T1.6A
F803, 804	1-532-237-00 1-532-465-00	Ⓑ Fuse, T3.15A (AEP Model) Ⓒ Fuse, T3.15A (UK Model)

MISCELLANEOUS

Ref. No.	*Part No.*	*Description*
CB701, 751	1-532-380-61	Ⓔ Breaker, 1.9 A
CF201	1-527-278-XX	Ⓕ Filter, ceramic
CP801	1-102-394-11	Ⓐ Encapsulated Component
LPF301,351	1-231-224-00	Ⓑ Encapsulated Component
ME901	1-520-235-00	Ⓗ Meter, SIGNAL
ME902	1-520-236-00	Ⓗ Meter, FM TUNING
PL901	1-518-169-XX	Ⓑ Lamp, pilot; STEREO
PL902～904	1-518-116-00	Ⓑ Lamp, pilot
PL905	1-518-285-00	Ⓔ Lamp, dial pointer
TM901	1-536-506-00	Ⓒ Terminal Strip, ANTENNA
TM902, 903	1-536-446-XX	Ⓑ Terminal Strip, 4-P, SPEAKER A, B
	1-463-188-00	Ⓜ Front-end
	1-508-897-00	Ⓒ Plug, voltage selector
	1-539-392-XX	Ⓑ Plate, L-shaped
	1-533-131-00	Ⓐ Holder, fuse

ACCESSORIES & PACKING MATERIALS

Part No.	*Description*
X-4490-002-2	Ⓑ Silicon Cloth Ass'y
1-501-161-11	Ⓕ Feeder, antenna
1-534-819-00	Ⓖ Cord, 3-P power (UK Model)
3-701-630-00	Ⓐ Bag, plastic, accessories
3-770-221-11	Ⓔ Manual Instruction
4-828-909-00	Ⓑ Bag, plastic
4-846-217-00	Ⓒ Cushion (E)
4-846-323-00	Ⓗ Carton

Note: The components identified by shading are critical for safety. Replace only with part number specified.

9-958-387-01

Sony Corporation
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Printed in Japan

FM STEREO/FM-AM RECEIVER

STR-2800L

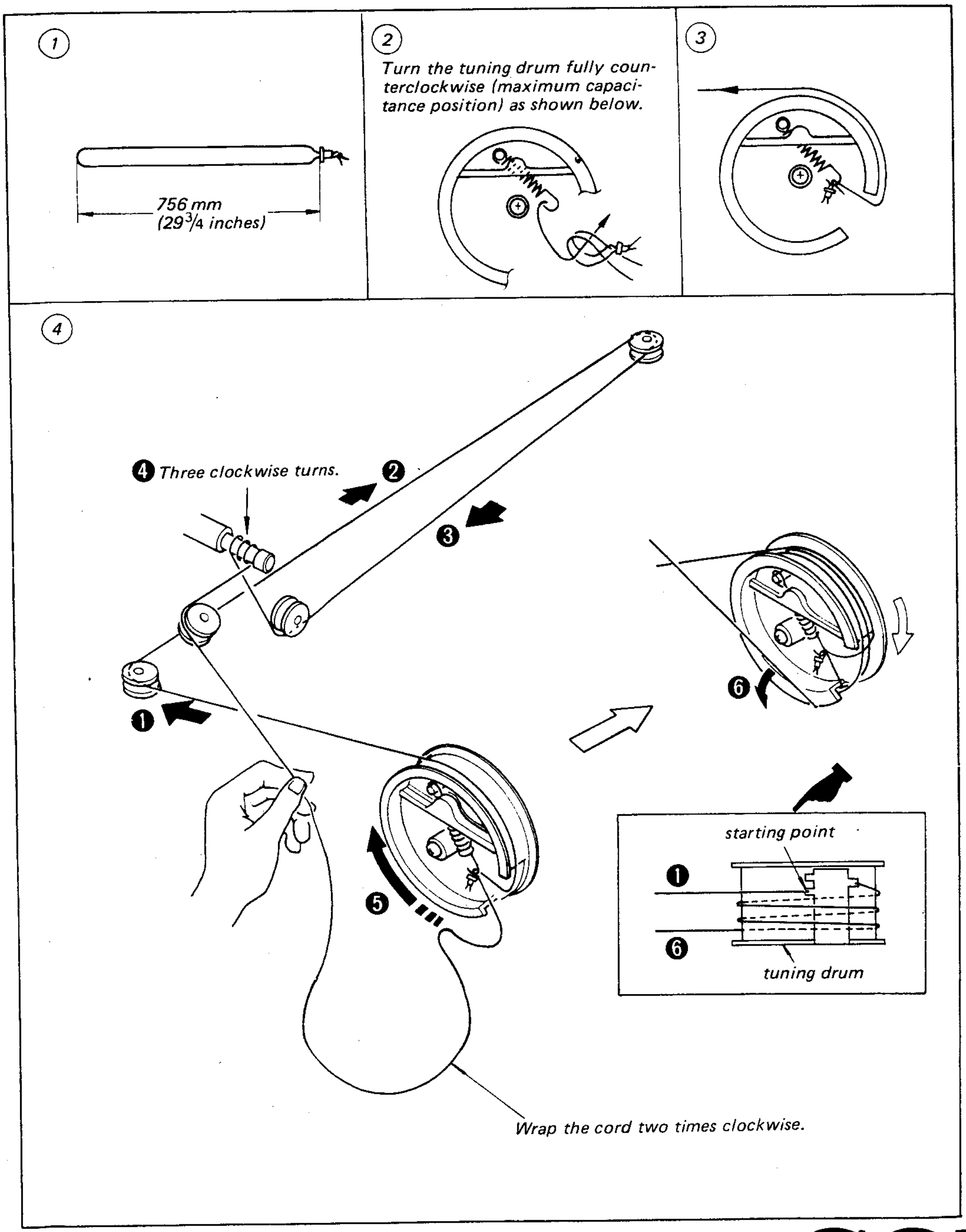
CORRECTION

Correct the service manual as shown below.

☛ : corrected portion

AEP Model
UK Model
No. 1
May, 1977

2-2. DIAL CORD STRINGING (on page 6)


①
756 mm
(29 3/4 inches)
②
③
④
❹ Three clockwise turns.
❷
❸
❶
❺
❻
starting point
tuning drum

Turn the tuning drum fully counterclockwise (maximum capacitance position) as shown below.

Wrap the cord two times clockwise.

SONY
SERVICE MANUAL

Sony Corporation

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Printed in Japan